

Manufacturers Record

Exponent of American

\$6.50 per Year.
Single Copy, 20 Cents.

Baltimore, Md.
APRIL 3, 1924

A Remarkable Highway Exposition.

It is a fair assumption we believe, that considered from all angles North Carolina is today the most prosperous state in the Union, making relatively greater agricultural, industrial and educational progress than any other state. This has largely come about by the superb work which has been done in the building of highways on a scale not equalled relatively by any other commonwealth.

The North Carolina Highway Department now proposes a demonstration scheme of tremendous far-reaching importance. Some forty or fifty engineers and officials from South American countries will visit the United States early this summer for the purpose of studying our road-building campaign. These men will visit the United States as the guests of the Pan-American Union and the United States Highway Educational Board. In order to give them a specific and comprehensive illustration of what highway building has meant in construction and in influence upon other interests, the North Carolina Highway Commission has worked out a plan by which the American Road Builders Association will hold a road building demonstration in that state from June 4 to June 10 in connection with the State Highway Commission; and at that time it is proposed to have all of these South American engineers and officials visit North Carolina and see by practical demonstration what is being done.


In giving these details Mr. Page writes the Manufacturers Record: "We also hope to have with us from 2500 to 3000 invited guests, including governors, and the road building officials, both state and county of half a dozen or more Southern states, including South Carolina, Georgia, Florida, Alabama, Mississippi, Kentucky, Tennessee and Virginia.

"We hope to have about a dozen road projects under actual construction of the different types of road, and the different methods of construction; and in one instance the machinery and methods, the most modern of its kind. In addition to this we propose to have a large exhibit of road building equipment at some centrally located point, and on each job we will have some one who is thoroughly familiar with the construction of that particular class of work to lecture and explain the work. Each evening we will have a round table discussion of different road problems that we have witnessed during the day.

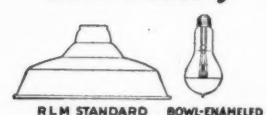
"We are particularly anxious to have our members in the adjoining states to North Carolina who are interested in and responsible for the road program of their respective states, visit us at this time; and your good paper can assist us in securing this attendance as no other medium of which I know."

This is the finest plan for awakening a whole section to what road building means that has ever been devised in the United States. Here will be placed on exhibition many hundreds of miles of the most perfectly constructed roads of various kinds. These in themselves will form an exhibit of road work that taken in connection with a display of road building machinery which has never been equalled in this country—and we are quite sure has never been matched elsewhere on earth—will prove invaluable to the whole country. It should be the aim of road engineers, of business people, and others interested in what road building can do for a country, and of all contractors and road building machinery makers in all parts of the land to take part in this ocular demonstration in North Carolina of highway construction which has led that state out of depression into abounding prosperity, which has stimulated its educational campaign and caused tens of millions of dollars to be expended for college and university extensions, and which has created a spirit of optimism and enthusiasm that radiates throughout every part of North Carolina, and from North Carolina radiates into every part of this country.

It is a remarkable proposition. Its influence for good will be limitless. We extend our heartiest congratulations to North Carolina for having initiated so superb a proposition, and we repeat what we have often said before, that "he who does the most for highway building is doing the most for the advancement of the religious, educational and material activities of his country."



One Way to Light Your Factory



RLM STANDARD REFLECTOR BOWL-ENAMELED MAZDA LAMP

Use 200-watt bowl-enameled MAZDA lamps in the RLM type metal reflector shown above. Space 10 feet apart.

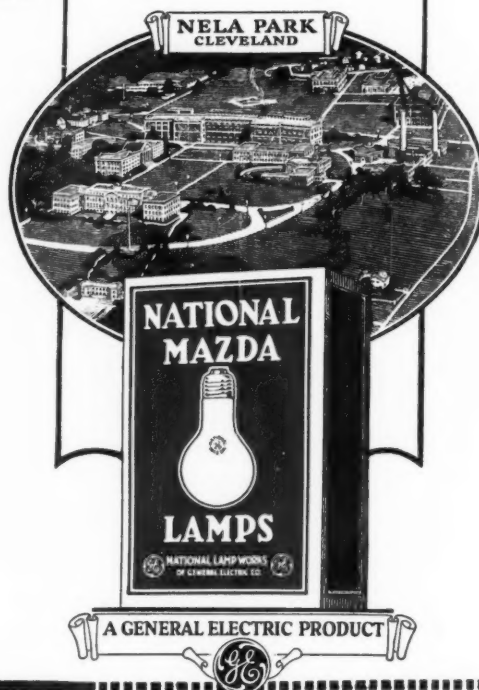
Nela Park is a "university" of light, dedicated to improvement in lamps and progress in the art of lighting.

Better Light Shows Direct Profit in Building White Trucks

Improvement of *lighting* was an important part in the shop betterment program of White Motor Company, Cleveland, Ohio. Old shallow reflectors were replaced with modern ones. Larger MAZDA lamps were installed. Units were hung closer together for uniform lighting. Unpleasant glare and confusing shadows were eliminated. Result: A conviction on the part of the management, of substantial increase in efficiency and accuracy of production.

Send coupon below for booklets: "How Better Lighting Increased Our Production 25%", giving in detail the lighting experience of the Detroit Piston Ring Company; and "Cutting Factory Costs with Lighting", giving the experience of well-known manufacturers and telling exactly how to make inexpensive lighting improvements in your own plant.

If your annual cost of lamps is \$75 or more, you are entitled to a contract price that will substantially reduce your lamp bill.



NATIONAL MAZDA LAMPS

MAIL THIS COUPON →

NATIONAL LAMP WORKS
of General Electric Company
Nela Park, Cleveland, Ohio

Please send me the following: Full details of the savings made by taking advantage of annual lamp contracts.
☐ Booklet: "How Better Lighting Increased Our Production 25%"; ☐ Booklet: "Cutting Factory Costs with Lighting".

Name.....
Street and Number.....
City and State

APRIL 3, 1924

Manufacturers Record

Exponent of America



CONTENTS

A Remarkable Highway Exposition.....Cover Page

EDITORIALS

Standardizing the Nation to Death.....	93
Better Homeseekers Rates Granted by Southeastern Railroads.....	94
Cotton Production in South Africa.....	94
Seeking to Break Down West Virginia's Development of High Grade Coal in Interest of Inferior Western Coal.....	95
A Bad Blunder by Two Railroads.....	96
Daniel J. Sully's Tribute to the South.....	97
What's the Matter With Georgia—And Some Other States?.....	97
A Warning Against Foreign Labor in Southern Cotton Mills.....	99
President Baldwin of the Missouri Pacific Railroad Makes a Wise Move.....	99
A Railroad's Appeal for Southern Children and Teachers.....	100
Changed Conditions in Cotton Growing Under Boll Weevil.....	100
Southern College Professors Who Do Not Know the South.....	101
Publicity by Taxation.....	101
Where Do They Stand on Law Obedience?.....	102

NEWS ARTICLES

A Fight Against the Public Welfare Is Involved in the Fight Against West Virginia Coal.....	By W. M. Wiley 103
A Radical Change in the Heat Treatment of Cast Iron.....	By Richard W. Edmonds 105
Fort Worth: A Romance of Achievement.....	By Roscoe Ady 107
Fort Smith a Center of Great Natural Wealth.....	By Ray Gill 115
Completing Galveston Seawall Improvements.....	116
West Virginia Supreme Court Decision Protects Right of Companies to Evict Employees on Strike from Company Houses.....	117
Protests Against an Action of the Treasury Department.....	118
Three Modern North Carolina Schools.....	119
Unprecedented Building and Industrial Activity South.....	120

DEPARTMENTS

The Iron and Steel Situation.....	121	Commendations, Kicks and Comments....	130
Railroads.....	122	Construction.....	131
Good Roads and Streets.....	125	Machinery, Proposals and Supplies Wanted	155
Textile.....	127	New Financial Corporations.....	157
Lumber and Building Materials.....	128	New Securities.....	157
Mechanical.....	129	Industrial News of Interest.....	160

PUBLISHED EVERY THURSDAY BY THE MANUFACTURERS RECORD PUBLISHING CO.

Office: Manufacturers Record Building, Corner Commerce and Water Sts., Baltimore, Maryland.
RICHARD H. EDMONDS, President; FRANK GOULD, First Vice-President; VICTOR H. POWER, Second Vice-President;
I. S. FIELD, Secretary; J. ROBERT GOULD, Treasurer.

RICHARD H. EDMONDS, Editor.

BRANCH OFFICES:

CHICAGO, 11 So. La Salle St.
BOSTON, 734 Old South Bldg.

NEW YORK 901 Singer Bldg.
CINCINNATI, 923 Union Trust Bldg.

SUBSCRIPTION RATES:

\$6.50 a year (in advance); six months, \$3.50; three months, \$2 to United States, Mexico, Cuba, Porto Rico, Hawaii and the Philippines. For Canada add postage \$2 a year. For other foreign countries add postage \$5.50 a year. Back numbers, if available and not over one month old, 20 cents each. From one month to six months old, 50 cents each; over six months old, \$1 each. In ordering change of address, give old as well as new address.

MEMBER ASSOCIATED BUSINESS PAPERS, INC., AND AUDIT BUREAU OF CIRCULATIONS.

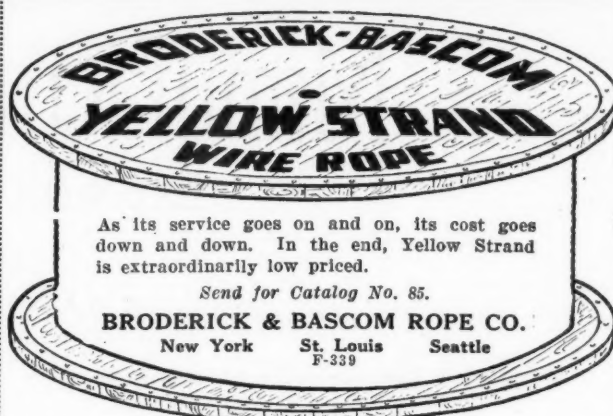
A Weaver on Northrop Worsted Looms Can Run 3 to 4 Times as Many Looms

As the Weaver on the old-style non-automatic Worsted Looms. They are doing it in many mills.

Let's Talk It Over. You want to know. There are no consultation charges or obligations.

DRAPER CORPORATION

Hopedale Massachusetts
Southern Office Atlanta Georgia



As its service goes on and on, its cost goes down and down. In the end, Yellow Strand is extraordinarily low priced.

Send for Catalog No. 85.

BRODERICK & BASCOM ROPE CO.

New York St. Louis Seattle
F-339

LIFT AND CARRY GOODS AND MATERIALS VIA

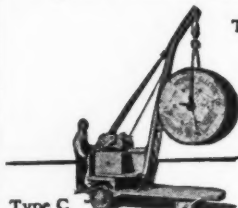
ELECTRIC INDUSTRIAL TRUCKS

Over 200 Branches of Industry served by ELWELL-PARKER equipments today.

Lighten Labor—Speed Production—Increase Profits

Catalog 1209

THE ELWELL-PARKER ELECTRIC CO.
Cleveland, Ohio



Type C



Type E



Dependable

The basic factor in the ever increasing popularity of HERCULES (Red-Strand) Wire Rope consists of nothing less than the demonstrated fact that under all kinds and conditions of service, it can be depended upon.

Established 1857

A. LESCHEN & SONS ROPE COMPANY

ST. LOUIS, MO.

New York Chicago Denver San Francisco

WARP TYING MACHINES WARP DRAWING MACHINES AUTOMATIC SPOOLERS HIGH SPEED WARPERS HAND KNOTTERS

BARBER-COLMAN COMPANY

BOSTON, MASS. GREENVILLE, S. C.

MAIN OFFICE AND FACTORY

ROCKFORD, ILL., U.S.A.

SENECA WIRE WIRE



We specialize in round wire—iron and steel—for special and particular purposes, as

Ropes, Brooms, Mattresses, Staples, Pins, Clips, Hair pins, Weaving.

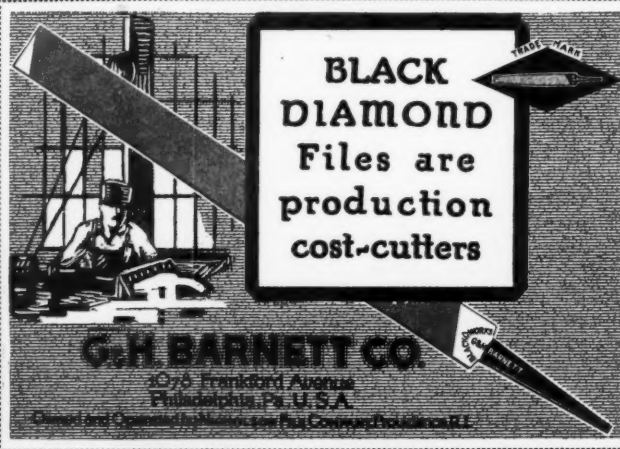
THE SENECA WIRE & MFG. CO.
FOSTORIA, OHIO

Southern Representatives
J. R. REGNAS & CO.
Atlanta, Ga.

JOBBERS SALES CORP.
New Orleans, La.
E. R. HENSEL
STEEL & COPPER CO.
St. Louis, Mo.

Also
Lath binding, Bundling purposes, etc.

The finishes are bright, tinned, galvanized, coppered, liquor finished, and soft annealed.



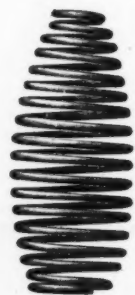
BLACK DIAMOND
Files are
production
cost-cutters

G. H. BARNETT CO.

2075 Frankford Avenue
Philadelphia, Pa. U.S.A.

Owned and Operated by Messrs. J. H. Barnett and J. H. Barnett

"ANYTHING IN SPRINGS"



is just one of our sayings. Another is—RAYMOND Wire SPRINGS give highly efficient, dependable, economical and long lived service.

Let our Engineering Department consult with you about your spring problems.

RAYMOND MANUFACTURING CO., LTD.
CORRY, PENNA.

Manufacturers Record

EXPONENT OF AMERICA

Devoted to the Upbuilding of the Nation Through the Development
of the South and Southwest as the Nation's Greatest Material Asset

Trade-Name Registered in the U. S. Patent Office

Vol. LXXXV No. 14
Weekly.

BALTIMORE, APRIL 3, 1924.

{ SINGLE COPIES, 20 CENTS.
\$6.50 A YEAR.

Standardizing the Nation to Death.

ARCHITECTS, and home builders, and the makers of furniture should all be called to task by the Department of Commerce in Washington for the wild extravagance of not standardizing the shape and construction and furnishing of every home. Why should there be any such waste of time and money in a man planning his home a little different from anybody else and buying perhaps a different kind of furniture, or a different pattern of rugs, when if everybody would adopt the same general style and standardize the plans of the houses great economic saving would be made? And when we come to think of the matter, this standardizing to the very large profit of the country could be carried on still further. Women's dresses and hats should be standardized, as well as men's clothes, for why waste money in having a variety and diversity of clothes after we have agreed to standardize the shapes and forms of construction, and the materials used in the furnishing of all of our homes.

Absurd, did someone say? Perhaps the suggestion appears so; but it is scarcely more absurd than some of the plans that are being put out by the Department of Commerce as to standardization. It is standardizing lumber, it is standardizing bricks, it is standardizing metal barrels, and various and sundry other things; and now according to Washington dispatches it hopes to standardize the size and the shape and the paper used by the newspapers and magazines of America! What a brilliant conception! But it is being put forth on the basis that it would produce economy.

It is exactly the same kind of economy that would be produced by standardizing every home in the land, and having standardized the newspapers in form and paper, Secretary Hoover should then go a step further and standardize all of the editorial and news stuff, for men often display almost as much initiative and ingenuity and good sense in the style of a publication as in the matter contained in it. And our suggestion would be that all of this standardizing be done on a mediocre basis to meet the mob spirit of the country, which as a whole does not want anything serious, but does want the wildly sensational and cheap-john, mediocre stuff. So let us while standardizing, standardize on the mediocre basis all the brain work that is supposed to be put into newspaper and magazine publications. Let us standardize the character of the editorials, and thus produce a large degree of economy.

Indeed, why should we not carry it a step further and organize a bureau in Washington which would write all the editorials, one bureau furnishing editorials for democratic papers, one furnishing editorials for republican papers; and the news of the country could be supplied in the same way. The saving would be simply enormous. All of the editors and reporters of the land could be easily got rid of, and merely a few makeup men could take the stuff as it comes

from Washington and grind out these standardized publications.

Seriously, the standardizing of everything is being run into the ground. It is a fad which finds its fruition in the suggestion recently made from the Department of Commerce as to standardizing the size of publications. What a deadly monotonous, uninteresting publication business we would have in this country under such standardized methods. It is simply a case of standardization run to seed—and the seed are not worth gathering.

Verily it seems that some of these departments and bureaus at Washington are obsessed with the idea that it is their divine commission to run and rule every business interest in the country. If their plans should be adopted, all enterprise, all self-reliance and initiative work would be destroyed. Men are not mere machines, although some automatic machinery almost makes them into machines; and instead of encouraging these machine made men and men made into a machine, this country should encourage initiative and energy and self-reliance.

Standardization is some things is desirable, but in a very large majority of things it is not desirable. Diversity of thought and act can find expression in diversity of production. If we want to grind out houses by the thousands, every house looking exactly like every other house, an enormous amount could be saved. But what a deadly monotonous outlook this would present, and how deadening would be its effect upon the dwellers in such houses.

If we want to carry economy of standardization to the limit we might plan that all furniture should be designed along exactly similar lines, and every corner of every house have exactly the same kind of furniture; for why should we fail to economize on things of this kind when the order of the day is to standardize and economize?

We are reaching a point where nothing is to be left apparently to individual judgment and initiative; where one bureau in Washington is to take charge of all of the births in the country, and prospective mothers are to be required to make reports as to their condition to Washington headquarters, or to some bureau established by states in co-operation with the Washington bureau. And now theorists are undertaking a scheme to create a Department of Education with \$100,000,000 for annual expenditure, to be increased from time to time like all other bureaus are constantly demanding, for the purpose of standardizing education. If put into effect this organization would practically dictate the sort of books that are to be used in all the schools of the land, the methods to be taught, and thus standardize down to the greatest degree of mediocrity the teachers, some of whom might have energy and initiative of their own; and to standardize education down to the level of the lowest mentality.

On with the merry dance! Let us standardize everything!

Standardize the babies that are to be born; standardize the methods that every mother must use in feeding and training the babies; standardize the education of the schools and the teachers, and the scholars; standardize the mentality and the physical development of the boys and girls, on up to manhood and womanhood; standardize them on a basis that the lowest mentality shall be the standard by which men and women are to be measured; and then having standardized them to this degree, they are to be fed standardized newspapers with standardized mentality in the editorial and news department, and in the ingenuity and initiative work and design down to the mediocre level of the lowest.

Oh, what a nation we will have! What billions of dollars will be saved! How the standardized child and student will live in a standardized house, furnished with standardized carpets and rugs and furniture, sleep in a standardized bed, eat at a standardized table of standardized food, study in standardized books, and read in his daily or weekly papers and magazines the standardized mediocrity of the day, instead of having the blessing of the diversity of thought, diversity of mind, diversity of physical activity, and that competition of brain and brawn with which the Almighty endowed mankind for creative work.

Surely Nature made a great mistake when it failed to create all trees of the same size so that standardized lumber might be cut from standardized trees; when it failed to make every flower of its kind like every other flower of its kind; when it failed to make all mountains look exactly alike, and every valley a counterpart of every other valley. How vast would have been the saving economically if Nature had filled our land with trees of exactly the same size and same character, so that they could be cut by the same saws and made into exactly the same kind of lumber! Surely it must have been a gigantic blunder on the part of Nature, or shall we lift this creative work of Nature to the Creator Himself and express the wonder that all things were not created exactly alike and standardized in order that some of the so-called economists of the day might have been saved the brain work necessary in scheming to standardize everything on the face of the earth.

To men who do not think seriously or deeply, or look far ahead, some of these standardizing schemes strongly appeal, because of the apparent increased profit that may be made at the present. But this profit, if made, will be at the expense of originality, of diversity of mind, of creative thought, and the following along the line set by the Almighty Himself when in creative work. He made every mountain to differ from every other mountain, and every tree to differ from every other tree, and every human form and face to differ from every other human form and face, when some valleys were made shut in by many mountain ranges, while others stretched over vast areas, one fertile and the other infertile, one producing one kind of foodstuffs and another some other kind.

Variety, variety; diversity, diversity, is the order of God's creative work. In mankind, in the animals which roam the earth, in vegetation of all kinds, and alike in climates.

Some standardization here and there may be desirable, even though it tended to destroy originality; and originality and initiative should be two of the dominant traits of human character. But when this standardization scheme goes to the point of planning for the standardization in paper and size of the newspapers and magazines of the land, it displays an utterly incomprehensible mediocrity of thought.

In antebellum days there was a great political fight in Maine, and Maine was looked upon as the deciding point in a presidential contest. The defeated party sent broadcast the word, "Maine has gone hellbent for Governor Kent." This country as a whole would be headed exactly the same way if all schemes for standardization of education and maternity and publication work should continue along the same

line of progressive activity as during the last ten or twelve years when republicans and democrats alike have vied in putting everything on the face of the earth under the domination of some bureaucratic power in Washington. May heaven save us from any further progress in that direction!

BETTER HOMESEEEKERS RATES GRANTED BY SOUTHEASTERN RAILROADS.

AT last the Southeastern railroads have yielded to the insistent demands of those who have like the MANUFACTURERS RECORD been demanding better homeseekers rates. The new plan as adopted by the railroads extends the time for these rates through October and November and the first Tuesday in December.

Heretofore the railroads had insisted upon making the rates good only from April to September during which time Northern and Western farmers could not have gone South to investigate. As the plan now stands tickets will be sold from a number of specified points in the West to points in Alabama, Florida, Georgia, Mississippi, Louisiana, North Carolina, South Carolina and Tennessee, and tickets will also be sold from Memphis to destinations in Florida and Georgia. These tickets will be good to all railroad stations in all of the states named except Louisiana, Mississippi and Tennessee, and will be good to a number of points in those states. The fare will be one rate for the round trip plus two dollars. The railroads still adhere to the point that the tickets are good only in parties of five or more adults traveling on the same ticket. This is a mistake and should be corrected, for very few farmers or homeseekers will be able to make up parties of five.

We do not know why Virginia is not included in the list of states to which homeseekers rates are sold, for Virginia needs this class of settlers as much as do the Central Southern states. Railroads in the Southwest should also grant similar homeseekers rates from the North and West to Texas and Oklahoma. The railroads yielded very reluctantly to the extension of the time beyond September. Ultimately we feel they will be compelled to eliminate the five party restriction and they will do themselves a great service if they eliminate it immediately and then enter upon an aggressive campaign to bring Northern and Western settlers into the South.

A few days ago a letter received by the MANUFACTURERS RECORD stated that thousands of farmers in the wheat growing regions of the Northwest would gladly come to the South if the opportunity were offered.

COTTON PRODUCTION IN SOUTH AFRICA.

AREPORT to the Department of Commerce from Johannesburg shows that during 1922-23 the production of cotton in that region amounted to 4800 bales, and it is reported that the area at present under cultivation is approximately 20,000 acres. It is said that country is free today from two of the world cotton pests, and that there are from three to four million acres of virgin land suitable for the production of cotton; "but the biggest factor is the lack of sufficient labor of the right kind."

That last statement has a direct bearing on the whole question of cotton production throughout the world. Labor of the right kind is not easily secured. It is not in sufficient quantity in any of the countries in which Europeans are trying to develop cotton growing, and it will be many long years before labor of the right kind can be made to produce an increase in cotton equal to the world's needs.

Seeking to Break Down West Virginia's Development of High Grade Coal in Interest of Inferior Western Coal.

IN connection with the article published in this issue "A Fight Against the Public Welfare Is Involved in the Fight Against West Virginia Coal," by W. M. Wiley, Vice-President of the Boone County Coal Corporation, it is interesting to study the bill of complaint of the Carbon Fuel Company and others, in the District Court of the United States for the Southern District of West Virginia, against the International Organization of the United Mine Workers of America and others.

It has long been claimed that coal operators in the Central Western coal fields have been responsible for many of the strikes in West Virginia, fomenting trouble in that state it is alleged with the co-operation of the United Mine Workers of America, in order to lessen the competition of West Virginia high grade coals with the coals of the Central West.

In the bill of complaint of the Carbon Fuel Company and others it is said "that the unlawful acts of said defendants hereinbefore set forth, are not local or sporadic in their nature, but a part of the unlawful combinations, conspiracies, policies and efforts of said International Organization, United Mine Workers of America, hereinbefore set forth, and done at its order or instigation or with its approval and consent, in order to make the same effective at the mines of all non-union operators in the United States, and especially at the mines of these plaintiffs and other non-union operators in the State of West Virginia."

It is claimed that a joint conference was held in 1898 between the officials and representatives of the United Mine Workers of America, and the coal operators of what is known as "Central Competitive Field," in Chicago, at which time the effect of the competition of West Virginia coal was fully discussed; and in order to destroy this competition and to bar West Virginia coal from the Central Competitive Field and the common market throughout the United States and Canada, an unlawful combination was formed between these mine workers and the coal operators. It is also claimed that since 1898 it has been the avowed purpose of the United Mine Workers of America to secure control of, and to operate a monopoly of all labor in and about the coal mines of the United States, and that inasmuch as the labor cost in the coal industry is from 75 per cent to 90 per cent of the production cost of coal, the United Mine Workers, in the event it completely succeeds in carrying out its objects in monopolizing the mine labor, will be able to control absolutely both the production and price to the consumer of all coal produced in the United States and on the American continent; and that further, by such control of the production and price of coal, it will be able to control absolutely all industries in the United States and on the American continent which now use coal as fuel.

Mr. Mitchell, former president of the United Mine Workers, is quoted as having said in Pittsburgh in 1899 to coal operators while in a joint conference:

"An effort has been made during the past year to curtail the production of West Virginia coal by attempting to prevent its sale on this market."

An Illinois operator is quoted as saying at the same time: "The West Virginia coal is really the whole question, and is the key to everything that must be said by this convention. It affects the states unequally it is true, but affects them all. West Virginia coal goes by Lake to the Northwest and meets us there, and it is increasing in the markets into which we go, and have gone every day in the week, every week in the month, and every month in the year. The next president

of the Miners' Organization has asked us to accept this statement, that through a boycott of the West Virginia coal, they have made, or are making some progress towards the correction of that condition. I live in Chicago, where West Virginia coal reaches us by Lake and by rail. It has not been more than one or two years since we were accustomed to seeing long lines of loaded wagons with 'Indiana Block Coal,' 'Hocking,' or 'Jackson,' or 'Southern Coal,' passing through our streets to the dwellings which use coal for fuel. Within the last year these wagons are carrying signs of the West Virginia coal, 'Pocahontas,' 'New River Smokeless,' and all other smokeless coals that are mined in the mountains of West Virginia; and today you will see three or four, or more than four wagons of West Virginia coal to every one of Ohio, Indiana and Illinois put together on the streets of Chicago."

Dozens of quotations from coal operators are given as indicating a definite combination between them and the United Mine Workers to make it impossible for West Virginia coal to find a market in the Central West. One of these statements, credited to an Ohio coal operator and made in this joint conference, said: "We are fighting to prevent West Virginia increasing her tonnage."

A Pennsylvania coal operator said: "It does not matter how much we want to reach the time when this vicious competition will be regulated, if not destroyed."

An official of the United Mine Workers is quoted as saying: "We have had thousands of men go to the penitentiary for trying to establish our organization in West Virginia and other non-union fields; and not only have they gone to the penitentiary, but they have been beaten up and slaughtered. We have had men go to jail. The penitentiary doors have no terrors for us as far as that is concerned; and if putting 200 or 300 of our men in jail will organize West Virginia, we will send 200 or 300 down. The chances are we will have to get busy in that situation shortly."

In this bill of complaint a long list of such quotations is to be found, as are many details regarding the acts of violence in West Virginia for the purpose of breaking down the non-union mining interests, partly for the purpose of bringing all miners into the Union, but apparently in part also for the purpose of boycotting West Virginia coal for the benefit of the inferior coals of the Central West. Apparently these Central West operators have no concern whatever for the consuming public. Unwilling that the high grade coals of West Virginia should find a market in the West and drive out their inferior coals, they are sacrificing public welfare for their own selfish interests.

Nature has given to West Virginia its tremendous advantage in its smokeless coals. These coals are a national asset, and any attack of the national government by legislation, or attacks by the Interstate Commerce Commission, or any other organization, to restrict the shipment of these coals into the West by arbitrary legislation or unfair freight rates, would be to say that they propose to sacrifice the consuming public for the benefit of the United Mine Workers and the operators in the fields of inferior coals in the Central West.

In former years it was a well established principle that the public had a right to buy the best quality of coal or other products of the mine or the factory or the farm, and not be forced by legislative or commission action into buying an inferior article due to a practical boycott against the superior article. And yet in the article by Mr. Wiley in this issue he refers to the increasing freight rates that have been put on West Virginia high grade coal, apparently for the express

purpose of keeping these coals out of Western markets, and he adds:

"The coal fields of West Virginia can ship no coal north, south, east or west without paying a freight rate on it which is higher to any given point than the coal of other fields."

And further he says:

"These various increases in the cost of West Virginia coal have not kept it out of the market, and the consumers and users of steam and gas coal still buy it. Other systems having failed, it is proposed to use freight rates to zone it out of the market so that the public will be denied its use."

This is a matter in which the entire coal consuming population of the country is vitally interested.

There are indications that there is growing up in Washington, and possibly in the Interstate Commerce Commission, a desire to divide the country into zones in the matter of coal and other freight rates.

This is fundamentally false. In the end it would prove disastrous, for it would not only develop sectionalism where we should have broad Americanism, but it would practically mean virtually dividing the nation into provinces, each complete in itself so far as freight rates could make it, and in this way developing a separation as distinct as that of European countries. The growth of this country and all that has made for the development of the nation and of Americanism, has come largely through the widest possible trading of all sections.

The zoning system adopted by the Post Office Department for newspapers is, in our opinion, fundamentally false, entirely without regard to the question of rates of postage. The broadest development of the country and the creation of the broadest spirit of Americanism can only come about through the intermingling of the people of all parts of the country the one with the other; the widest dissemination of literature created in one section and read in other sections; the widest diversity of trade. Any zoning system by freight rates on coal or other products would build up Chinese Walls in which the tendency would be for each section to live to itself alone.

Our prosperity has come from the broad dealing across state lines from the Atlantic to the Pacific, and from the Lakes to the Gulf. If the Interstate Commerce Commission wants to break down Americanism and create a spirit of sectionalism, localizing trade within certain zones by freight rates, it could not suggest a more powerful influence for accomplishing this than the establishment of zone systems on coal or any other freight. Any supposed economy brought about by such a change would in the end be a false economy and disastrous in its effect.

It is to be hoped that at least there are some far-seeing men on the Interstate Commerce Commission who will prevent the introduction of any zone system into the freight rate business of this country.

HAVE YOU ORDERED?

PRESIDENT C. B. VERNER, of the Merchants Bank & Trust Company, Tuscaloosa, Ala., writing about the value of the Blue Book of Southern Progress calls attention to the fact that his company bought 500 copies last year and that they have been splendidly received and are doing a great work for the South. "The Blue Book," he added, "contains a great deal of very valuable information which is useful to most every progressive community."

As valuable as was the Blue Book of 1923, we think the 1924 edition, which is now being put in type, will largely exceed in value any preceding edition. Have you ordered your copy or copies of the new edition?

A BAD BLUNDER BY TWO RAILROADS.

GIVING due credit to the Florida East Coast Railroad for the splendid work which it has done during the last 25 years in the development of that entire region which stretches from Jacksonville 500 miles to Key West, for the construction of its oversea line with direct steamer connection from Key West to Cuba, which has resulted in the development of an enormous freight and passenger traffic, that road has made a serious tactical blunder in joining with the Atlantic Coast Line in opposing the building of a 200 mile line supposed to be in the interest of the Seaboard Railroad.

In asking the Interstate Commerce Commission to refuse the request of the Florida Western and Northern Railway Company to construct a new cross-state line, the Florida East Coast and the Atlantic Coast Line have done themselves far greater harm by the development of a spirit of criticism and hostility on the part of the people of the state than they could accomplish good for themselves even if their petition were granted.

The arguments advanced by the Atlantic Coast Line are weak. In the course of its statement to the Interstate Commerce Commission in asking that the building of the Florida Western and Northern be forbidden the Coast Line claims that much of the territory through which the new road would be built is undeveloped and says "the applicants' proposed railroad through this section will serve undeveloped territory." And this is given apparently as one reason why the road should not be constructed.

We have been laboring under the impression for many years that railroads were built for the purpose of developing undeveloped territory, in part at least, and to suggest as one reason why this proposed line should not be built is that a part of the territory to be traversed is undeveloped is so unwise that it is astonishing the officials of the Atlantic Coast Line should have even raised such an issue. The more undeveloped it is the more reason for the building of the new line in order to open it up for development.

Another reason given by these two railroads is that there is not sufficient traffic in the territory now served by the Atlantic Coast Line and the Florida East Coast Railroad to justify the construction of a competitive North and South line. The very fact that the East Coast Railroad has found its traffic increasing with such tremendous rapidity that it has decided to double-track its entire line from Jacksonville to Miami and that it has what in effect from New Smyrna down is a third line, in order to lessen the pressure of traffic on its main line, is sure proof that even when double-tracked the road will have all of the traffic it can possibly handle.

Thirteen years ago in an interview—republished in the MANUFACTURERS RECORD two weeks ago—Henry M. Flagler, the creator of the East Coast Railroad pointed out the tremendous growth of traffic on that road, far exceeding its facilities, and stated that he realized that even then it needed to be double-tracked. The traffic of that road has been increasing rapidly ever since, and even the enthusiastic forecast of Mr. Flagler at that time will we believe be far exceeded in coming years.

The Atlantic Coast Line Railroad is crowded during the winter months with all the passenger traffic it can possibly handle and even much of this is handled in such a way as to detract largely from the pleasure of travel, for the trains are entirely too heavy to be handled with comfort for the passengers.

Florida is only at the beginning of its development. Its growth in the past is merely a hint of what its growth in the future is to be.

The Atlantic Coast Line by the force of economic condi-

tions will probably be compelled to double-track practically all of its line in Florida within the next few years following the wise example of the East Coast Railroad, and even then it will be difficult for it to handle its business.

For these roads to attempt to prevent another line from coming into the state whether it be in the interest of the Seaboard as is supposed or not, is one of the greatest tactical blunders we have ever seen made by railroads.

We cannot imagine for one moment that the Interstate Commerce Commission will be so narrow visioned as to permit these roads to throttle a much needed line which is projected, and if this position is correct then these two roads will merely have made hostility in the state without having accomplish anything for themselves and if they should by any chance succeed in blocking the building of the new road through unwise action on the part of the Interstate Commerce Commission the penalties which would be forced upon them by public hostility and by legislative action in Florida would cost them more than they could ever hope to win by preventing the building of this projected line.

It was an extremely short sighted policy on the part of the officers of these two lines but it only serves to show how men will sometimes take a narrow view of an economic question without considering all phases of its bearing upon their own future.

DANIEL J. SULLY'S TRIBUTE TO THE SOUTH.

2210 Beachwood Drive,

Los Angeles, Cal., February 19.

Editor Manufacturers Record:

A few days ago I was the recipient of one of your "Blue Books of Southern Progress" and I want if you will allow me to congratulate you on this matchless literary production, containing as it does a recital of the most phenomenal growth of industries and agricultural products that the world has ever recorded, in language so forcible, so eloquent and inspiring that it seems pulsate with the very life blood and strength of those people who did accomplish these marvelous wonders.

It vividly recalls those many, many hours when you and I talked Cotton, Cotton, Cotton.

How truly wonderful it all is and how really infinitesimal we are in comparison to the work of a great people.

Nothing in my whole life has so impressed me as this peerless narration of yours of a noble people and their accomplishments.

Please accept my sincerest and heartiest congratulations. No nobler work has ever been done.

DANIEL J. SULLY.

The foregoing letter calls to mind the tremendous effort made by Mr. Sully years ago to lift the burden of poverty from the cotton growers of the South, which at that time was very heavy because of years of low prices for cotton. Except for a brief period, Mr. Sully's efforts failed, due to the definite combination of all the cotton spinners in Europe, as repeatedly pointed out in publications issued by Sir Charles W. Macara, who was President of the International Federation of Master Cotton Spinners which under his guidance carried forward a plan for limiting the consumption of cotton for the express purpose, as he has repeatedly stated, of breaking down the prices brought about by Mr. Sully's activities.

The Blue Book of Southern Progress which has received this enthusiastic endorsement from Mr. Sully was the 1923 edition. The 1924 edition is now in preparation and will contain many facts not published in previous editions. A study of it will add to the knowledge of its readers of the resources and development of the South. If the 1923 edition so deeply impressed itself upon Mr. Sully as it has done upon thousands of others, is it unreasonable to suggest that every man and woman in the South should read that publication and seek to spread abroad the information contained in it?

WHAT'S THE MATTER WITH GEORGIA—AND SOME OTHER STATES?

THAT Georgia has slipped from its high position as the Empire State of the South, no longer the acknowledged leader in Southern development, is frankly admitted in an address made by Frederick H. McDonald, Managing Director of the Georgia Industrial Bureau; and that North Carolina and Florida have taken the proud position once held by Georgia as the most progressive state of the south is also admitted.

In his address before the Society for the Economic Improvement of Georgia, Mr. McDonald undertook to diagnose the condition of Georgia based on a careful survey which has been made of the entire situation.

"We have," he says, "devoted practically the entire time of our technical staff to the fundamental work of determining what Georgia has to sell, and just what are her liabilities. The work has been under way for eight months, and the situation of the whole state has been carefully investigated.

"And now," writes Mr. McDonald to the MANUFACTURERS RECORD, "we are taking the other slant of telling Georgia how bad it is, with a definite program to start on the way to improvement."

In his address Mr. McDonald said:

"We were once recognized as the Empire State of the South. We have unconsciously, but none the less woefully, been backsliders.

"We must either make Georgia the Empire State of the new South or cease boasting of our past laurels. The Bureau has found that Georgia has a reputation for factionalism and internal strife, disaster and governmental instability that are of themselves sufficient to submerge our naturally great advantages."

Last year in reply to a question from a subscriber as to what is the matter with Georgia, the MANUFACTURERS RECORD pointed out that primarily one of the troubles with Georgia has been political hatreds and bitterness engendered throughout the State for some years by political campaigns probably never matched in this country in any other State for intense denunciation of one candidate by the other, and the whole state has for years concentrated its efforts more on red hot political fights for everything from a county sheriff to the governorship or a United States senatorship. And Georgia lost out. A spirit of lawlessness developed; lynchings became all too common; reputable business men violated the laws, and thus encouraged irresponsible and disreputable men to violate all laws. Some of these statements were not palatable, but they were welcomed by Georgia people who realized the situation. Some of the statements which Mr. McDonald has made in his address will not be welcome to all Georgia people, but they are the truth nevertheless. The true physician tries to diagnose a case honestly, and only then can he rightly begin the healing work.

Referring to the statements which we have quoted from his address, Mr. McDonald said:

"Failure to recognize and admit them is criminal neglect, and in addition emphasizes by contrast their absence in competitive states."

Georgians as a commonwealth do not yet have a sufficiently united sense of the value and worth of the resources and desirability of their own state to present that faith and belief in it which is absolutely necessary to convince the outsider of the desirability of locating in Georgia.

"North Carolina is the best advertised and most talked of state in the South," says Mr. McDonald, and the reason he gives for this is that "they have for a number of years so constantly worked toward the development and upbuilding

of the fundamentals of prosperity that they have prosperity. People who hear of North Carolina want to go there, not because it has any natural endowments that the surrounding states do not also have, but primarily because of the people of the state, outwardly at least, believe in the state and are conscientiously working as a whole for the betterment of the state. You cannot spend two hours in North Carolina and not know all about what it is doing, and how great a state it is in which to live.

"When we get this same condition of personal and general belief in and contribution to the development of the state of Georgia, when we get to the time when an outsider cannot talk to a Georgian without wanting to come to Georgia, then we have something tangible—that is so tangible as to be a self-advertiser."

"This desirable condition," said Mr. McDonald, "will not come through talk. There is constructive work to be done, and the people of Georgia have to do it for themselves. We have been too long content to raise our eyes to heaven and plead for a Moses to lead us. We have been howling on the subject of advertising for farm immigrants and industrial investors, and when they come down here they can hardly get from one place to another off of our none-too-good main highways without carrying a tractor along to pull themselves out of the ruts and mud. We have been holding programs and preachings of diversification to the farmer, and without giving him good enough roads to make it possible cheaply to haul small quantities of his products to such markets as he might have. We have been shouting about illiteracy and need for better education, and we cannot centralize even our county schools because the roads are not good enough to run our children back and forth and leave them time for study.

"Good roads, and hundreds of them, better roads all over and in every part of the state, is our primary need; but we cannot get them by talking about them. If we want good roads we have got to build good roads. The Georgia Industrial Bureau is putting itself on record, not just as favoring good roads, but as being behind a movement with all of our resources to get good roads; not to talk about how good things would be if we had good roads. We are going to do everything we can to help provide a state bond issue for roads."

Mr. McDonald then stressed the importance of more liberal support to educational institutions, and said that when the condition of state educational institutions is taken into account, "Georgia people cannot blame outsiders if they think the South is a backwoods nation made up of dawdling sloths.

"As we see it, the much noised about deplorable condition of the farmer is not a matter of distribution, not a problem of banking and finance; but it is a subject for education—education plus plenty of hard work on the part of the individual. What good does it do for the Government and laboratory experts to find that calcium arsenate combined with a certain amount of cotton put under cultivation will solve the problem of the boll weevil, if we do not get the farmer to use calcium arsenate, restricting his acreage to an amount which he can profitably handle, and then sticking with it day and night until he makes a good crop?

"What use to talk about diversification if we do not find out what the farmer should plant, when to plant it, and how to grow it? * * * * * And this principle that applies to the making of a successful farmer, applies equally to the making of our children into successful business men and women. We have got to make our educational facilities adequate if we would have a more prosperous and better known and desirable state.

"The great need is not for more farmers, but for more production by those already here. We need more intensive farming, with a larger production at a less cost, and we need

larger local industrial transportation and activity to absorb the surplus workers who cannot make a profitable living under present farming conditions.

"Plenty of our farmers have been 'sold' on the question of diversification, only to find an utter lack of market for their comparatively small quantities of products. One of our greatest needs is much larger population and non-productive local industrial markets like those of the further advanced industrial regions elsewhere. Under present conditions it has not been universally profitable to produce perishable farm products in quantity, for as soon as the local demand was satisfied it would become necessary to hunt distant markets for the excess, and this means either local drying, canning and packing plants, or the formation of co-operative selling organizations that can collect any quantities of these products and find profitable markets for them before they rot on the hands of the producer.

"We need to create more and larger centres of population and communities that are producing nothing for their own consumption; yet whose payrolls will trickle into the pockets of our farmers for foods and raw materials. This means the stimulation of industrial and commercial growth of the section, the development of new manufacturing enterprises; and when we do this we not only create these strategical local markets, but we create additional wealth and employment. Not only is some of the burden of taxation lifted from the farmer and our industry broadened, but we create centers of training and employment for our sons and daughters. We can keep them home instead of making it necessary for them to leave us for other fields.

"The stimulation of industrial development is a business and technical problem. In the absence of any other state agency equipped to handle it, the Georgia Industrial Bureau was organized. Along with the preparation and securing of the foundation necessary to make Georgia into a prosperous and desirable state, was carried on this phase of the work."

In these statements emphasizing the need of industrial development and of a large proportion of non-food-producers in order to help solve the farm problem, Mr. McDonald is taking exactly the ground which the MANUFACTURERS RECORD has for many years been advocating. It may be worth while saying that one of the fundamental reasons which caused the editor of the MANUFACTURERS RECORD from the very establishment of this paper to urge a protective tariff as essential to the South was that after a study of Southern farm conditions about which he had been long writing as a member of the editorial staff of another paper, he found by personal study a lack of a market for diversified products. He found that when there was no manufacturing development there could be no local market for diversified crops. He saw that New England and Pennsylvania and New York, and Ohio and other Western states, with an enormous industrial development created through the aid of a protective tariff, had a ready market for everything which their farmers could produce.

One of the difficulties of solving the problem of the wheat growers in the Northwest is that while the Government is urging them to turn to diversified products they are living in a section which has comparatively little industrial development, and though they may raise more of their own food-stuffs than they have been doing, they need local markets.

Pre-eminently true is this throughout the South. It may be stated without fear of contradiction that no section can be permanently prosperous agriculturally unless it has a market at home for diversified products, or unless it is raising a crop for which the demand exceeds the supply and which, therefore, always commands a profitable price to the grower. But there are few crops and few places in the world where that condition exists.

Industrial development is a supreme need of Southern

agriculture, and industrial development as we have for years been saying cannot come to the South on as large a scale as its resources deserve except through the aid of a protective tariff. The farmer, therefore, is more vitally concerned in having a strong protective tariff on manufactured products, as well as agricultural products, than any other class of people.

If the Georgia Industrial Bureau and similar organizations in the South could only see their way clear to demanding an adequate protective tariff as the foundation on which to build industrial development, and thus increase the home market for farm products, favoring this on a strictly economic basis and not from any political standpoint, these organizations would take one more great step in advance for enlarging the prosperity of Southern agriculture.

A WARNING AGAINST FOREIGN LABOR IN SOUTHERN COTTON MILLS.

JAMES D. HAMMETT of Anderson, S. C., Ex-President of the American Cotton Manufacturers' Association, sees a danger in eastern capital coming South, if it is to be followed by eastern labor. He made a well remembered address on this subject at the last meeting of the association. Summarizing what he then said, Mr. Hammett writes:

"We of the South do not wish to appear lacking in hospitality, and welcome to the South the cotton mill interests of the East as rapidly as our native labor can take care of the machinery. We are unable and unwilling to welcome to the South the mill labor of the East, made up as it is largely of foreigners whose ideals are entirely different from ours and who, we feel, would bring with them trouble and disaster to the industry. We welcome the textile interests among us, but do not welcome them if they contemplate bringing with them the foreign labor now engaged in their mills in the East.

"The management of Southern mills and the labor in Southern mills are of the same flesh and blood, often being kinsmen, and it is not the purpose of the mill management or of the mill labor to encourage an element to come among us that will cause trouble between the management of the textile industry and the labor in that industry.

"Southern people assisted by Southern labor have built up a splendid industry and manufacture a large proportion of the South's cotton crop. Naturally the Southern management and the Southern labor do not welcome the advent of an element to which is attached a walking delegate or other official of an organization who elects to take charge indirectly of the management of an industry which Southern people have with so much attention built up for the common good.

"We welcome to the South people who wish to engage in the textile industry whenever they come, provided they do not come so rapidly that our native-born Southern labor cannot take care properly of the operation of their plants."

THE SOUTH SHOULD BUY HOME SECURITIES.

BAKER, WATTS & CO., Baltimore bankers, in their March review of financial conditions referring in a lengthy article to the South, said:

"The financial position of the South should be further strengthened by the movement inaugurated recently under the leadership of the MANUFACTURERS RECORD to encourage investment in local securities in order that more funds may be made available for local development. It is also desired to keep the funds required for interest and dividends in local circulation as an added stimulus to prosperity."

PRESIDENT BALDWIN OF THE MISSOURI PACIFIC RAILROAD MAKES A WISE MOVE.

PRESIDENT L. W. BALDWIN, of the Missouri Pacific Railroad Company, in an advertisement in the MANUFACTURERS RECORD of last week presented some very interesting points worthy of consideration, not only by the people of the territory tributary to his road, but by the people of the country at large.

There is one especially important feature connected with the statement in that it is signed by President Baldwin personally. The innovation is a good one. Men like to read at the foot of an advertisement the name of some official connected with railroad development or management when their advertisement appeals especially to their sense of fairness and justice. They want to know who stands before the public as responsible for the statements made, and the name of the president of such a great road carries weight which would not be given simply to the name of the road itself.

In this innovation we think President Baldwin has inaugurated a plan which will have far more weight with the people who read his advertisement than would merely the statements which he makes signed only by the railroad itself.

In this statement he calls upon the country to "go forward, not backward." This is a very wise suggestion. There may have been much corruption in political circles; many things may have been done wrong; but any man who thinks that the activities of investigation in Washington and the results will endanger this country, or cause the American people to lose faith in it, is entirely wrong. No one man, no dozen men whose operations are brought to light, however corrupt they may have been, can seriously hinder the progress of America.

There is far greater danger to our progress and to our safety as a country from the violation of law by supposedly reputable people who wink at the bootleggers' game and participate in it, than there is in all political corruption which Washington may or may not develop in the final roundup of these investigations. A few politicians and a few business men working with them cannot destroy the progress of America; but millions of American people violating the laws constantly might accomplish this.

But returning to President Baldwin's statement. The facts which he gives in regard to the development of railroads are of interest. They should be studied by every one who is concerned for the upbuilding of the business interests of this country.

"Cooperation," says Mr. Baldwin, "is what has made America great, and co-operation and mutual understanding and constructive helpfulness will make the United States and our basic institutions even greater."

These statements are true. They should be reiterated in every business house in America. Friendly cooperation and competition in preference to the cut-throat policies which had existed in times past was the keynote of all the celebrated Gary dinners, when Judge Gary and his associates were trying to stem the panic of 1907 and bring the iron and steel men of the country into a spirit of friendship in preference to the bitter, cut-throat rivalry of former years. The work done at these dinners turned the tide of the iron and steel industry from cut-throat competitive channels into hearty friendly cooperation where competition was not destroyed but where it was placed on a friendly basis.

The MANUFACTURERS RECORD at the time said that Judge Gary had inaugurated a movement which would revolutionize the business of the world, because he was teaching men that cooperation was preferable to cut-throat policies.

Out of these teachings and these meetings there developed

a friendship between the iron and steel people which had never existed in former years. Every man had been a little afraid of his competitor; every man felt that his competitor might at any moment pursue the cut-throat policy and, therefore, every man was on his guard always looking out to cut the other fellow's throat in order to keep his own from being cut. In place of that condition there has been developed in the iron and steel trade probably a greater spirit of friendship and cooperation than in any other industry in America; and this spirit is largely growing and is helping to shape the spirit of the American people in all business activities.

President Baldwin's statement is worth emphasizing for the influence which it may have in helping to develop the spirit of cooperation between the railroads and the people. It is a very noticeable fact that in the last few years the railroads have taken an entirely different position in dealing with the public from that which they formerly held. In olden times the railroads gave comparatively little attention to cultivating public sentiment and winning the friendship of the people. For the last few years the railroads have been run on an entirely different basis, and now through the winning of public favor they are more likely to come into their own and secure the public's co-operation than would have been possible under former conditions.

A RAILROAD'S APPEAL FOR SOUTHERN CHILDREN AND TEACHERS.

WE justly boast of the South's limitless raw materials of minerals, timber and soil; but measured by the true standard, how small in value are these as compared with its more boundless wealth of raw materials in the boys and girls of the present generation!

The Southern Railway System, in a recent issue of the *MANUFACTURERS RECORD*, as in other papers, carried an advertisement pregnant with a great truth. Neither that road nor any other in the South has probably ever put forth a wiser advertisement than the one to which we refer. Under the heading of "For the Future of the South" the Southern Railway System had the following in regard to the boys and girls of the South and those who teach them:

"Because of the remarkable development of its natural resources, the South today is taking a new leadership in the economic progress of the nation.

"But this leadership, if it is to be maintained, must have a more enduring foundation than the possession and exploitation of material things.

"The South of tomorrow will be made by the children of today. The boys now in school and attending the churches will be the captains of industry and the leaders in the professions a few years hence.

"Citizenship is in the making in the schools and the churches.

"A great responsibility rests upon the shoulders of the teachers of the South—in the pulpit and in the class-room.

"But the compensation accorded the great majority of them is inadequate.

"The Southern Railway System, which pays three million dollars per annum in school taxes, voices not only its own best interest but the ambition of its 60,000 employees in respect to the future of their children and their section, when it expresses the view that greater rewards should be offered the men and women who are building Southern citizenship of tomorrow."

So live with men as if God saw you; so speak with God as if men heard you.—Seneca.

CHANGED CONDITIONS IN COTTON GROWING UNDER BOLL WEEVIL.

"COTTON farming in the South is changing. The lame-mule-negro cotton farming methods will have to give way to an entirely different system. The big plantation of old is doomed. Its days are numbered. Cotton has been raised on it up to today practically under slavery conditions. Conditions of slavery, either real or economic, can no longer be maintained."

That is the opening paragraph of an extremely interesting letter which is being sent out by El. J. Bodman, Vice President of the Union Trust Company of Little Rock, and Chairman of the Agricultural Committee of the Arkansas Bankers Association. The views expressed by Mr. Bodman in this interesting survey of the situation are in exact harmony with what this paper has been saying for some years. He points out that the typical plantation manager, and the typical ignorant, careless negro tenant, are a combination easily whipped by the boll weevil.

Moreover, industrial activities and high wages in the North and West will continue to draw a large amount of negro cotton labor from the South, and Mr. Bodman takes the ground, with which we agree, that "They will never return; their insight into better living conditions and high wages will make them permanently unfit to be tenant cotton farmers."

The day of the "one-gallus, hill-billy" cotton farmer is about gone, and the only cotton farmer who is going to win against the boll weevil is the intelligent, trained farmer, who applies brains and scientific methods to the cultivation of cotton on a farm of reasonable size. This kind of a farmer will never endure slavery conditions for himself and his family, for he can easily turn from cotton growing to diversified agriculture.

"The meaning of this," says Mr. Bodman, "is that the days of low priced cotton in America are gone, and if we ever get back to crops of old-time size, the type of farmer who gets us back will do so only because he makes a fair profit on his year's work."

The Union Trust Company, of which Mr. Bodman is Vice President, operates as trustee under wills several large plantations in which several thousand acres are devoted to cotton growing. The operating organization has been carefully picked after years of experience. The general manager is a highly trained business executive with long years of agricultural training. The methods practiced are modern and practical. The records of cost are kept as carefully as in any well managed business. The cost of production is lower and the yield per acre greater than the average of land of this character in Arkansas.

Details are given as to the cost of raising cotton on these plantations, and the net cost of lint per acre for the landlord is estimated at \$31.50, based on the average of three year's operation. The landlord receives one-half of the average of 183 pounds of lint, or 91½ pounds, which divided into \$31.50 per acre shows a cost to him of approximately 30½¢ a pound to produce. The tenant, having his wife and his children to help him cultivate and harvest a crop of cotton, gets a gross return per acre of \$25.22 on the basis of 10 acres, which is all a man and his wife can cultivate, giving him a gross income of approximately \$252.20. Out of this he must live from one crop to another, and out of this he must buy his clothes and care for all other family expenses.

Mr. Bodman adds, referring to these tenant farmers:

"Space will prevent my reciting living conditions that exist on the average plantation, but, as a rule, the whole family,

father, mother and children down to those ten years of age work in the fields, and this is the reward that is theirs.

"I do not attempt to show from the records of these plantations that this is the proper cost of producing a pound of cotton. This is the estimate of the cost of producing an acre of cotton on these plantations for the year 1924, as based on a three years' average of production on same. These plantations have produced better than the average in that locality, and at less cost per pound. The cost of producing a pound of cotton depends very largely upon the yield per acre."

Here is a careful survey of the whole situation from the standpoint of a banker long identified with cotton growing interests, and who bases his report on the actual operation of a number of plantations under skillful management. Is it not time under these conditions, which are thus so truly outlined, for the world to realize that for the farmer cotton growing is one of the most unprofitable business activities in which a man can engage? Is it not time to realize that never again can cotton sell at a low price except it be through the bankruptcy of cotton growers?

Cotton is not essential to the South's prosperity. This section can turn to diversified agriculture and to living at home. It is incumbent upon every banker and business man in the South to see that everything that can be done is done to lessen the acreage given to cotton growing and to induce farmers to concentrate on dairying and stock raising and poultry and kindred activities. In these can be found a source of far greater prosperity than cotton has ever yielded to the growers, and in their prosperity would come a larger prosperity for the entire South.

SOUTHERN COLLEGE PROFESSORS WHO DO NOT KNOW THE SOUTH.

A professor in one of the leading educational institutions of the South, referring to the Blue Book of Southern Progress with its story of Southern resource and Southern development, says:

"You would be surprised how very little even the Southern instructors know about the country that they live in."

Our friend is somewhat mistaken for we have long known that the majority of college professors in the South know extremely little of the past, present and future of their own section. We have been astonished many times to see the dense ignorance of this section of many men who teach Southern youth. The writer has occasionally delivered addresses at Southern college commencements, and though nothing in these addresses should have been unknown to every teacher in every college in the South, he found that the facts which he gave about the old South, as well as about the South of today, were almost wholly unknown to every professor in attendance.

For many years we have wondered why there is not in all Southern institutions of learning an enthusiastic love of and appreciation of the achievements of the old South and of the resources on which to build for the future.

We believe the University of North Carolina is doing more to arouse its own state to these facts than any other institution of learning in the South. Certainly, it is putting forth constantly a more intelligent presentation of what North Carolina has and what it is doing, than the information which comes to us from any other college or university in the South. It has been an inspiration to stimulate the people in North Carolina in material up-building, as well as in educational work.

Would that every other institution of learning in the South was carrying on a campaign equally as aggressive and equally as intelligently managed!

PUBLICITY BY TAXATION.

THE suggestion recently made in the MANUFACTURERS RECORD by W. B. Powell, Secretary of Lake County Chamber of Commerce, Tavares, Florida, that publicity campaigns for cities and states should be paid for by public taxation has aroused widespread interest.

Here and there this scheme would come in direct contact with the plans of various organizations which make a business—for a good round commission—of working up "drives," as they are called, for memberships in commercial organizations, and indeed somewhat similar drives—on commission—are occasionally carried out by some of these organizations for community chests and kindred philanthropic activities.

People who are thus directly interested in earning good commissions for work of this kind do not, of course, want to see publicity campaigns carried on by taxation, for that would eliminate their means of a livelihood. We have not been surprised, therefore, that here and there opposition is expressed to the taxation method of publicity work and yet the more one studies the matter we believe the more clearly will it become evident that while individual memberships in commercial organizations and the management of these organizations by business men and not by politicians are essential to the best interests of the community, the real work of these organizations in the form of publicity should be paid for by taxation. In no other way is it possible to make every property owner and business man in a city bear his fair share of the cost of the work which adds to the prosperity of the community, and thus to the value of every business interest and of every piece of property in it.

In a recent issue of the MANUFACTURERS RECORD, Thomas P. Turner, secretary of the Chamber of Commerce of Tallahassee, Fla., in expressing his opposition to the views of some secretaries in favor of such work, says, "My opinion is that these gentlemen are not thinking."

This is a rather presumptuous assumption and we are afraid that Mr. Turner is the one who has not been seriously thinking. At least, it is a little unwise in Mr. Turner to suggest that other people who are giving this matter very serious concern are not thinking, for that is a reflection upon men who have been thinking very long and very deeply about a question so vitally important to the welfare of every community in the South. Perhaps the fact that one of these organizations to which we have referred was at that time working in Tallahassee for a "drive" to increase the membership of the Chamber of Commerce, with the announcement in a dispatch from that city that the next three weeks would be given over to putting the re-organization plans into effect under the direction of a member of the organization which has worked up the drive for a commission, may have some connection with Mr. Turner's view.

As a general proposition these drives are not the way to produce the desired results. They create a hectic condition for the time being and they represent a hectic spirit of a community rather than a safe, substantial and solid development of commercial organizations.

We reiterate the statement which we have made before that only through taxation representing all property and all business interests in a community can there be a fair basis on which to carry on a publicity campaign. The community whose property owners are not willing to be taxed for its upbuilding hardly deserves success. It is needless to say that the money to be expended in this way should go through the hands of the ablest men in the community identified with the commercial organization, and every dollar should be made to tell for the best possible results in securing publicity and there are many forms of publicity which can be made to produce good results.

Bearing on this question is an interesting letter from H. S.

Murray, Chairman of the Public Affairs Commission of the Kiwanis Club, Tifton, Ga., in which he writes under date of March 21:

"We are much impressed with the publicity tax plan as set forth in your editorial and in the article by Willis B. Powell, Secretary Chamber of Commerce, Tavares, Fla., carried in the January 24 issue of the RECORD, and are preparing to launch a campaign to put it over in Georgia.

"To that end we are enclosing check for \$5.00 for which kindly mail us 100 copies of the article by Mr. Powell. We propose to place these with the various civic organizations of the state as an introduction of the subject, and with a request that each organization immediately co-operate with us in procuring required legislation this year to authorize the levy and collection of such a tax in this state."

WHERE DO THEY STAND ON LAW OBEDIENCE?

MR. HUGH G. WHITEHEAD, president of the Virginia National Bank, Norfolk, Va., in discontinuing the subscription of his bank to the MANUFACTURERS RECORD writes:

"Do not have time to read it.

"We do not endorse your attitude toward the Federal Reserve Banks.

"We are not rampant prohibitionists."

Here are three reasons, all of which indicate that Mr. Whitehead and his associates in the bank really do need to read the MANUFACTURERS RECORD.

Judge Gary, president of the greatest corporation in the world, and one of the busiest men in the world, recently wrote us that he and his associates read the MANUFACTURERS RECORD carefully. He finds time always to read it. Mr. Charles M. Schwab, another man holding almost as important a position as Judge Gary, and probably equally as busy, is a warm admirer and reader of this paper. George M. Verity, president of the American Rolling Mill Co., a \$55,000,000 concern, as busy as a man can well be in managing his varied and widely scattered interests, and in so running his plant that he never has a strike among the thousands of laborers employed, is a constant and enthusiastic reader of this paper. Thousands of other men equally as busy as these find time to read the MANUFACTURERS RECORD. But Mr. Whitehead says that he does not have time to read it. We wonder if the question might not be raised as to whether Mr. Whitehead and his associate officers are busier than Gary and Schwab and Verity and thousands of others.

Mr. Whitehead says that his bank does not endorse our attitude toward the Federal Reserve Banks. Possibly he has overlooked the fact that the United States Supreme Court has upheld in every case brought before it against the former mismanagement of the Federal Reserve Bank the exact position taken by the MANUFACTURERS RECORD; and the Federal Reserve Board has fully accepted the decisions of the Supreme Court and is acting in accordance with them. Is Mr. Whitehead opposed to the decisions of the Supreme Court and the present methods of the Federal Reserve Board in following its decisions?

Mr. Whitehead says "we are not rampant prohibitionists," and we presume that he means by that not only himself, but other officers of the bank. It is not a question as to whether he and his fellow officers are prohibitionists or not. The question which confronts them, and every other patriotic citizen, is:

Are they law abiding, and do they uphold the laws which are on our statute books?

We grant freely that a man may have a right to seek to repeal the prohibition law if in his judgment it is unwise; but we deny the right of any man to violate it, or any other

law, merely because it does not suit his convenience to obey it. The demand of the MANUFACTURERS RECORD is that supposedly reputable citizens shall obey the laws of the country. Do Mr. Whitehead and his associates object to this or do they object to prohibition per se?

The MANUFACTURERS RECORD believes thoroughly in the wisdom of prohibition, but prohibition itself is not the supreme issue before the country. The supreme question before this nation is:

Shall there be obedience to law or shall supposedly respectable citizens by violating one law encourage other men to violate any and all laws which do not suit their convenience?

Every man who breaks the prohibition law, whether he favors that law or not, is setting an example to other men to violate any and every other law. "Obedience to law is liberty" is a motto over a courthouse in Massachusetts. It might with equal force be added that disobedience to law means inevitable anarchy if continued.

We repeat the question:

Are Mr. Whitehead and his associate officers merely opposed to prohibition in itself, or are they opposed to the enforcement of law, for which the MANUFACTURERS RECORD unequivocally stands?

Are they opposed to the decisions of the Supreme Court which upheld the contentions which this paper made in regard to the former mismanagement of the Federal Reserve Board in trying to wreck state banks by immoral and illegal means?

We leave entirely to them the question as to whether they are busier men than Judge Gary, Mr. Schwab and the thousands of other business leaders of the country who do find time to read, and read carefully the MANUFACTURERS RECORD.

Paint and Varnish Production, 1923.

The Department of Commerce announces that there was produced during the year 1923, 439,175,900 pounds of paste paints (comprising white lead in oil, 260,976,600 pounds, zinc oxide in oil, 17,452,800 pounds, and other paste paints, 160,746,500 pounds), as compared with 436,295,500 pounds in 1922, 383,761,800 pounds in 1921, and 345,706,900 pounds in 1920; 82,069,700 gallons of ready mixed and semi-paste paints in 1923 as compared with 66,071,300 gallons in 1922, 45,755,600 gallons in 1921, and 56,681,900 gallons in 1920; and 70,731,000 gallons of varnishes, japans, and lacquers in 1923 as compared with 53,709,400 in 1922, 36,055,900 gallons in 1921, and 52,680,200 gallons in 1920.

The figures show an increase for 1923 over 1922 of .7 per cent in paste paints, 24.2 per cent in ready mixed and semi-paste paints, and 27 per cent in varnishes; as compared with per cent increases of 13.7, 44.4 and 54.5, respectively, for 1921-1922; and for 1920-1921, an increase of 11 per cent in paste paints, with decreases of 19.3 per cent and 31.6 per cent in ready mixed paints, and varnishes, respectively.

The returns are based upon the reports of 497 establishments, 55 of which are located in the South, of which 143 reported the manufacture of white lead in oil, 139 zinc oxide in oil, 295 other paste paints, 385 ready mixed and semi-paste paints, and 302 varnishes, japans, and lacquers.

Annual Meeting of Office Managers Association.

The Fifth Annual Conference of the National Association of Office Managers will be held at Niagara Falls on the Canadian side June 12, 13 and 14. The program will include such subjects as "The Office Manager's Responsibility," "Training Employees," etc., and in addition there will be several outside talks by prominent business men and educators. The sessions are open to visitors as well as to all those directly interested in the Association.

A Fight Against the Public Welfare Is Involved in the Fight Against West Virginia Coal.

By W. M. WILEY, Sharpless, West Virginia.

The recent Coal Commission, appointed by President Harding, sometimes known as the Fact Finding Commission, proposes to zone out of the markets of the Northeast, the West and the Southeast the high quality coals of West Virginia. This recommendation appears on page twenty-nine of their pamphlet issued December 20, 1923, which is referred to by them as the chapter on "Relief from Irregular Operation and Over-Development." In recent years various efforts have been made to deny the public the right to buy the quality coal of West Virginia.

Soon after the coal fields of West Virginia were opened and developed to the extent that coal could be shipped out of the state, the public discovered the quality of the West Virginia coal. That coal began to make a name and a market for itself at the cost of the market for inferior coal.

The coal product of West Virginia is all bituminous and may be divided into two general classes. The smokeless or low volatile coal comes largely from the fields known as the Pocahontas, Winding Gulf and New River fields. This coal is especially adapted to steam purposes, and against the other bituminous coal of the United States always commands a market, because of its smokeless quality and because of the high B. T. U.s which it contains.

Generally speaking, the other important bituminous coal produced in West Virginia is the high volatile or gas coal, which is produced in the Kanawha, Logan and Williamson fields. This coal is especially valuable for gas purposes on account of the small amount of sulphur it contains and because of its other advantageous qualities for gas or by-product purposes and commands a market in competition with the gas coals of the country.

Both grades of the coal referred to above contain very low ash and very low sulphur and have other superior qualities.

As soon as the public in the Middle West began through the use of the West Virginia coal to realize its high value, the consumption of West Virginia coal by the public increased rapidly.

To such an extent was this true that it became necessary for the producers in the Central Competitive Fields, which comprise the states of Illinois, Indiana, Ohio and Western Pennsylvania, to ask the United Mine Workers to defend the operators in the Central Competitive Fields from the encroachments on their market which the West Virginia coal, because of its quality, was making.

At that time the Central Competitive Fields were all union and the West Virginia fields were non-union. The United Mine Workers agreed that, for certain concessions made by the operators to them, they (the United Mine Workers) would undertake to prevent the competition of the West Virginia coals in the markets of the Central Competitive Fields.

After a few years a very interesting colloquy was entered into between the operators and the officers of the United Mine Workers because this competition had not been eliminated. This colloquy is set forth in detail in the bill of complaint of the Carbon Fuel Company et al against the International Organization of the United Mine Workers and others in a suit which is now pending before the Federal Court of Appeals in Richmond, Virginia. The details of this controversy and the words used by the parties on the two sides may there be found by those who are especially interested in the matter. It is enough to say here that the United Mine Workers of America at the request of the operators of the Central Competitive Fields agreed to eliminate this com-

petition and at succeeding meetings stated that they had made an extraordinary effort to do so. No consideration seems to have been given to the public, and the coal which it wished to use, in this matter. This arrangement between the operators and the United Mine Workers occurred about the year 1898. As the quality of the West Virginia coal continued to take it into the markets of the Central Competitive Fields, other efforts were made to increase the cost of West Virginia coal to the consumer.

The union entered West Virginia as the result of large operations being started in that state by operators from the Central Competitive Fields. These large operations in West Virginia were at once unionized and affected the mines about them, in some cases fifty miles distant. The West Virginia fields were put at a disadvantage by the contract with the Union.

A large portion of the slate and impurities developed in mining all coals was removed by the miner in the Central Competitive Fields without additional charge over the mining rate, that is, the miner was paid so much for producing a ton of coal and the impurities—slate, bone and other substances—were removed by him without any additional remuneration. The removal of these impurities is called, in mining parlance, dead work. In the West Virginia fields the contract now with the United Mine Workers provides that all of this dead work shall be paid for in addition to the rate that is paid the miner for loading the coal.

At this time the condition in West Virginia is such that the West Virginia operator pays the miner for shooting and loading his coal only, whereas in the Central Competitive Fields the rate paid the miner for a ton of coal covers a large amount of other work besides the actual shooting and loading of the coal. The result of this can be seen in fact that while in the Central Competitive Fields it is customary to have fifty day men to one hundred miners, in the West Virginia fields it is necessary to have from 80 to 120 day men or unproductive men to one hundred loaders.

The men referred to in the mine as unproductive are those who do not actually load coal but who keep up the track, operate the trains for moving the coal out of the mine, do the electrical work that is necessary and all other work about the mine which is not confined strictly to the loading of coal into the cars.

In the mines of West Virginia which became unionized, these increased costs were placed upon the coal, and the non-union mines, if they were to preserve their manpower, were obliged to a more or less extent to adopt the same rules and regulations.

The Bituminous Coal Commission in 1920, under President Wilson's administration, made an award of 27 per cent increase in the miners' pay and also increased the pay for dead work 20 per cent. Having arrived at the amount this increase would be in the Central Competitive Fields, the Commission applied the same increase to the West Virginia fields, and by reason of the difference in conditions this caused an increase of 44.4 per cent in the West Virginia fields. The mining rate in the Central Competitive Fields included the handling of dead work, while the West Virginia fields paid for dead work. As a consequence, 20 per cent increase on dead work placed the operators of West Virginia at a disadvantage and increased their cost, which resulted in an advantage to the Central Competitive Fields.

All of these increases added to the relative cost of the high quality West Virginia coal to the consumer.

While these things were going on the freight rates charged

on West Virginia coal were being increased, which added another, burden to the public, if the public wished to buy quality coal.

The coal fields of West Virginia can ship no coal North, South, East or West without paying a freight rate on it which is higher to any given point than the coal of other fields.

A case is now pending before the Interstate Commerce Commission in Washington by some of the operators from the Central Competitive Fields which, if it is successful, will cause the coals of West Virginia in shipping to the Lakes and to the Northwest to have the differential in rates increased from 25 cents per ton, which now exists, to 76 cents per ton. A case has recently been decided before the Interstate Commerce Commission increasing the differential on the West Virginia coals into Ohio to 10 cents per ton over what it had been.

These various increases in the cost of West Virginia coal have not kept it out of the market and the consumers and users of steam and gas coal still buy it. Other systems having failed, it is proposed to use freight rates to "zone" it out of the market so that the public will be denied its use.

The result of such a policy would be that the consumer of coal, whether he is a domestic user or a user of steam coal, would be obliged to buy coal of high ash, and in addition to paying for the ash as coal would have to pay the freight on it to his works, and the consumer or user would be denied the privilege of buying a coal of high quality and low ash.

It is some years ago since South Carolina attempted in a different way to zone out of her state the high quality products which were offered to the public in South Carolina. This matter was considered such a serious infringement of the Constitution of the United States and the specific clauses in it that the nullification act of South Carolina came near to precipitating a domestic war.

If this policy of zoning the public which lived in one section of the United States from the privilege of purchasing high quality goods in another section of the United States were pursued, we would not only violate the principles of the Constitution, as South Carolina attempted to do, but we would deny New York the use of California fruit and deny Boston the privilege of using Florida vegetables and deny the East the right to eat western grown beef. It might easily be said that the public who eat bread in New Orleans or the other portion of the South where wheat is not grown should be forced to use the flour from the nearest wheat, however cheap and poor in quality that wheat might be. We would join with the present attempted bloc system of government in arbitrarily dividing the interests of one part of the country from those of the whole country, and we would take away from the manufacturer in one section the proceeds of his ability in initiative and management which gave him a market for his product.

Additions to Bessemer Plant of Nashville Bridge Co.

Regarding the extension of its plant at Bessemer, Alabama, and other activities there, the Nashville Bridge Co. of Nashville, Tenn., wires the MANUFACTURERS RECORD that its capital stock has been increased to \$800,000 and that the Bessemer, Coal, Iron & Land Co. has become interested. Production has been more than doubled by the addition of a well-equipped, modern structural shop at Bessemer with a capacity of upward of 2000 tons of structural steel per month.

In conjunction with this plant, there has also been constructed a modern galvanizing plant capable of handling pieces from three feet square, 50 feet long, down to those with the dimensions of a tack. It is stated that the galvanizing plant will employ about 20 men at first and increase the number gradually.

A Plea for Government Ownership and Operation of Muscle Shoals.

Lynchburg, Va., March 20.

Editor Manufacturers Record:

I am very much impressed with the convincing argument contained in your editorial of the 20th inst. against the proposition to turn over Muscle Shoals to Mr. Ford. I had used practically the same argument for some time past in letters to some of our representatives in Congress.

There is no question in my mind of the unwisdom of a policy that would permit this transfer of a great public asset to private monopoly. Without meaning to be in any way offensive, I must say that your conclusion to exclude the Ford monopoly and open bids from others who are monopolists, or those who must in the course of time become so, appears to me to be impotent. From every point of view it would seem to be desirable that action by Congress in this and in similar matters should conform to sound principle, rather than be predicated upon the hope of satisfactory operation of opportunistic regulation.

Dislike it as we may, the civilization of the world is developing rapidly. Improved transportation and transmission have made us all neighbors and monopoly must inevitably result in many lines. The question, and the only question involved, as a matter of principle, is whether this development shall take the form of private monopoly or public monopoly in transportation, transmission and other large units. The former is unthinkable, because in principle it rests upon special privilege that is directly opposed to the principle of free government and if it obtained as a finality it could only do so by arresting development and placing under selfish incentive the service organizations of the country. We have at Washington now some of the practical effects of this mistaken theory. I have no doubt that this question will be finally settled right, but the method of settlement is one which should be of very deep concern to every liberty loving American.

Conformity to sound economic principle at this time would save an enormous amount of trouble which must result, if we first give away the national assets and then, under necessity, must undertake to regain them at some future time. Whether we meet it now, or shunt it off to our children, the death struggle between private monopoly and democracy will take place.

We now have an opportunity, in the Muscle Shoals matter, to use pre-vision and avoid unfortunate consequences. Let us hope that the American people may rise to the occasion and insist that the Government own and operate this great public utility.

A. F. THOMAS.

Will Build New Foundry Unit.

The W. K. Henderson Iron Works & Supply Co., of Shreveport, La., has announced its plans for the construction of a modern and up-to-date foundry unit just outside of the city limits of Shreveport.

With the removal of its foundry department, the machine shop, mill supply department and saw mill assembly rooms will utilize the buildings at present occupied by the foundry.

The new location of the foundry occupies an area of about fifteen acres, one side fronting on the Texas & Pacific Railroad tracks, giving ample switching facilities and storage space for raw materials.

Modern equipment will be installed throughout including two electric steel furnaces and two grey iron cupolas.

Frank D. Chase, Inc., of Chicago, are the engineers in charge of design and layout.

The building will be constructed by the Leonard Construction Company, of Chicago.

A Radical Change in the Heat Treatment of Cast Iron.

By RICHARD W. EDMONDS.

From a little machine shop in Brooklyn, N. Y., comes an invention which may have far-reaching importance in the heat-treatment of cast iron. The new process has been called annealing because of its resemblance to that well-known process, but the inventor prefers to call it *converting*, for it does more than annealing does, and it is said, in about one-tenth the time.

Some leading metallurgists have been impressed by the simplicity and the results obtained. Their reactions, when first told of it, may be summarized in a few words: "It simply can't be done. The thing is impossible." Yet they have gone and investigated, and have come away convinced.

Mr. Lindley Vinton, who has since become the president of the company developing the new process, made a preliminary investigation. Then he went to Professor Bradley Stoughton, and asked him to investigate and make a report. After examination Professor Stoughton made the statement: "When Mr. Vinton first asked me to go over to see the Schaap process and told me what had been done, it seemed so ridiculous that I went over, not for the purpose of making an examination, but to save my friend from wasting his money. When I had completed my investigation my principal interest was how I could become connected with it."

One of the results of that investigation was a highly technical six-page article by Professor Stoughton in the Iron Age for January 3. His assertions aroused so much interest among metallurgists and engineers that he was asked to deliver a lecture on the subject at the Engineers Club in New York on the 19th of February.

Professor Stoughton lists five objects sought in annealing gray cast iron, as follows:

1. Better machining qualities, including the elimination of hard spots and softness without toughness under the tool. Ninety per cent of previous practice probably had this end in view;
2. Softness and anti-friction qualities for bearing service, or where two surfaces are rubbed together, as in the operation of piston rings;
3. Pliability and malleability, so that the material may be distorted cold without fracture, may withstand shocks and blows without breaking, and may be hammered into a new shape either hot or cold;
4. Freedom from crystalline brittleness, so as to resist blows which do not strain it beyond its elastic limit;
5. Freedom from brittleness due to internal stresses produced during cooling or otherwise.

Many attempts have been made to anneal gray cast iron, but they have resulted in a loss of from 50 to 80 per cent of the strength of the iron.

In his monograph Professor Stoughton recounts some of the tests carried out on Schaap-converted cast iron:

"In order to make a direct test of machining qualities, a comparative test was made at a large automobile piston factory in New England with pistons cast in their own foundry and the same type of pistons which had been treated by the Schaap process.

"Some treated iron pistons, 550 in all, which had previously been rejected because they were either hard throughout or had hard spots which made them unmachinable, were treated against the regular run of the foundry pistons. Six lathes were used, of which five were used on the regular run of pistons and one on the treated pistons. In this test the same cutting tools were used and the conditions were identical, with the result that on the regular run of castings from two to seven cutting tools were used per 100 pistons turned. The time of turning was 30 seconds per piston. On the heat-treated pistons one tool was used for 168 pistons, after which it was in good condition and was broken by a piston that was badly out of round. On a second test 100 untreated pistons were run against 100 treated pistons. Four tools were worn out on the untreated pistons. Only one tool was

used for the 100 treated pistons, and it appeared to be in as good condition after the test as at the beginning.

"In addition, the maximum variation from the gage of the turned treated pistons was less than 0.007 of an inch, and the variation was gradual, due to the wearing away of the edge of the tool. The permissible variation from the gage was a maximum of 0.015 inch, which was passed in from 2 to 15 pistons turned as cast. When the untreated pistons were allowed to stand for a few days they warped slightly out of shape, thereby increasing the variation from the gage. The treated pistons did not change in gage dimensions after standing several days.

"Another machine test, while not as extensive as that just described, is confirmatory: An untreated bar was put in a lathe, using a Rex AA high-speed tool, set for a cut $\frac{1}{16}$ in. depth and a speed of 130 r.p.m., with 2-3/8 in. travel per min. Under these conditions the cutting tool smoked and this was taken as a preliminary test. A treated bar of the same iron was then put into the lathe with exactly the same conditions as to cutting tool and depth of cut, but at double speed (namely, 226 r.p.m.), and more than three times the feed (namely, $8\frac{1}{4}$ in. per min.). The cutting proceeded without any indication of overheating. The r.p.m. was then increased to 390 and the speed to $14\frac{1}{2}$ in. There was still no evidence of overheating; the machined specimen was clean and there was no indication of wear on the tool. The diameter of the work in all cases measured about 0.600 in. The speed of revolution was taken by a speed indicator on the head of the lathe."

To Alexander K. Schaap, a Virginian of Dutch extraction, goes the credit for this invention. For years Mr. Schaap has carried on his experiments, working first with a torch of his own design, and finally developing a furnace similar to that used in annealing. In fact, the difference between the Schaap process of converting and the annealing process is so slight that great surprise has been expressed by experts that it should produce such difference in results. In annealing the metal is exposed to the flame or to the products of combustion. In the Schaap process the metal is set inside a cylinder in the furnace, and the heat reaches it by radiation from the interior of the walls of the cylinder. In his monograph quoted above, Professor Stoughton discusses the probable effect of these gases of combustion on the metal, and the reasons for the great difference observed when the metal is protected from these gases; but so highly technical a discussion is beyond the scope of this article. Suffice it to say that herein seems to lie the reason for the difference in the results obtained by the annealing process and the Schaap process.

These results are summarized by Mr. Lindley Vinton:

1. The process requires, for gray cast iron, only so much time as is necessary to heat the metal. As soon as the temperature is reached the metal in its container is removed from the furnace, and a new batch put in. This may be 45 minutes or $1\frac{1}{2}$ hours according to the size of the parts, as contrasted with the all-day process of annealing.
2. All castings are perfectly normalized.
3. All hard areas and spots are eliminated.
4. Castings softened so that machining speed is doubled.
5. In spite of softening under the tool, they are made tougher, thus eliminating the breakage of castings in chucking and machining that ordinarily runs from 2 per cent to 10 per cent. The much greater softness combined with greater toughness is probably the greatest single gain, especially where automatic machining is used.
6. Increased malleability, making the metal stand up better under shocks and hammering in usage. Professor Stoughton says, "The most noteworthy characteristic . . . is the combination of pliability, ductility, malleability and resiliency. In its resiliency the heat-treated metal most resembles steel."

The commercial significance of the process may be illustrated by a few simple facts.

While I was in the Schaap plant recently I saw castings for automobile pistons that had been sent from the Ford plant for test treatment. These pistons will be treated in

about one-tenth the time required for the annealing or normalizing process. They will come out softer under the tool, tougher, and more malleable. They will be machined in the Ford plant in about one-half the time now required, and one lathe tool will cut several times as many pistons. About 2000 tons of cast iron is used in the Ford plant daily. The foregoing figures apply with equal force to all of it, whether for pistons or for other parts.

The development of the process has passed beyond the laboratory stage and is being used commercially on a small scale. While the commercial development is still in its infancy,—in fact has not yet been carried beyond the little Schaap plant in Brooklyn,—a few of its ramifications are sufficiently apparent to warrant pointing out.

Pistons and piston rings are already being Schaap-converted. Connecting rods, pistons, cylinders, fly-wheels, valves, cam-shafts, gears, gear-housings, etc., many of which are now made of steel, will, it is believed, be made of Schaap-converted cast iron. But this list does not begin to cover the possibilities of the automobile field, and there remain railroads, agricultural implements such as tractors, mill machinery, electrical equipment, and various other fields whose possibilities are beyond computation. The Schaap-process invention it is thought will rank as one of the great steps in modern metallurgical progress.

New \$1,000,000 Store Building for Washington.

Store facilities in Washington, D. C., will be appreciably increased by the erection of the proposed new building at 8th and E streets, northwest, for Lansburgh & Brother, which will involve an expenditure of \$1,000,000. Plans and specifications for the building have been prepared by Milburn, Heister & Co., and general contract has been awarded to Parsons & Hyman, Inc., both of Washington.

The building will be six stories, of fireproof construction and will be modernly equipped.

Sumter School Contracts Total \$300,000.

Sumter, S. C.—Contracts for school buildings here, aggregating nearly \$300,000, have been awarded by the school board. They include a boys' high school, girls' high school, manual training building and negro school. General contract for the first three structures which will cost \$256,714, was let to Derby & Burns of Fayetteville, N. C., and for the negro school to cost \$33,953, to I. F. Broom & Bro., of Sumter and Florence.

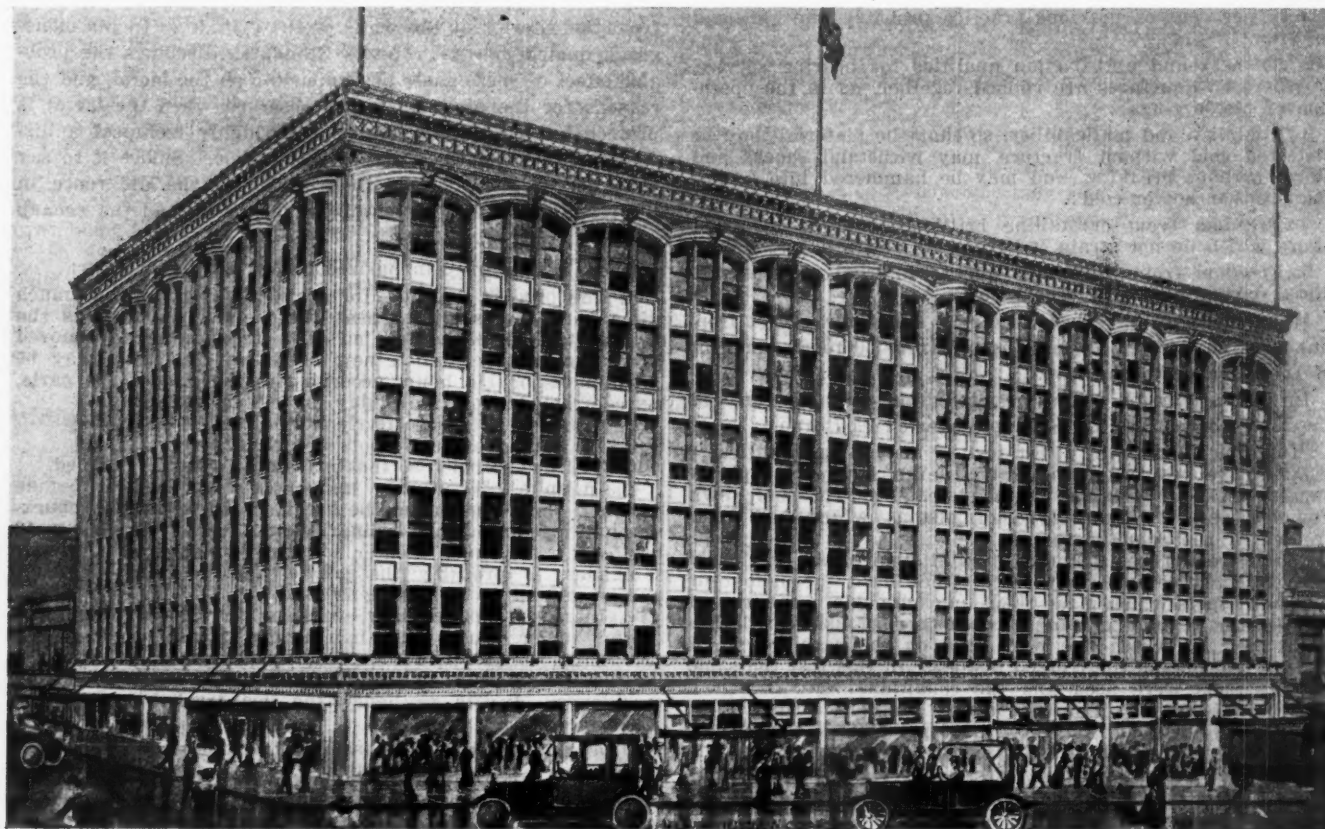
Sub-contracts were awarded as follows: Bryce Heating & Plumbing Co., Florence, plumbing for boys' high school, girls' high school and heating for manual training building; J. L. Powers, Bennettsville, S. C., heating for girls' high school and boys' high school; Lynam Electric Co., Sumter, lighting for boys' high school, manual training building and negro school; Carolina Electric Co.; Rock Hill, S. C., lighting for girls' high school; A. J. Ard, Sumter, plumbing for negro school, and W. B. Guimarin Co., Columbia, heating for negro school.

Wilson, Berryman & Kennedy of Columbia, S. C., Wilson and Gastonia, N. C., are the architects.

More Evidence of Potash in Western Texas.

The discovery of fairly rich potash salts in drill cuttings taken from two new wells in southwestern Reagan County, Tex., has been announced by the Department of the Interior.

Chemical tests by the Geological Survey of cuttings from these wells show the drill penetrated beds containing potash at depths between 1181 and 1687 feet. Beds that are possibly relatively thin or of low grade were found at depths between 1181 and 1210 feet. Thicker or richer deposits were found somewhere between depths of 1275 and 1325 feet. Considerable percentages of potash were found in cuttings taken between 1393 and 1445 feet, and as much as 3½ per cent was found in material brought up from depths between 1480 and 1560 feet. Indications of potash were found in beds lying between depths of 1620 and 1687 feet.



NEW \$1,000,000 LANSBURGH STORE TO BE ERECTED AT WASHINGTON.

.
=
.
l
,
-
,
r
f
.
k
,
u.
l
r
;
,
.
l.
n
.
s
,
-
n
h
-
s
e
t.
s
r
n

A

I
last
cele
ty-
of
an
the
ma
of
sett
Tex
the
in
mo
wit
100
2,00
pro

T
For
mer
tiet
the
the
Wo
tim
tion
tha
cat
fro
ran
hea

F
clac
and
mot
jubi
stre
hea
the
stor



Fort Worth: A Romance of Achievement.

HOW THE CITY HAS GROWN AND PROSPERED.

A Striking Illustration of Industrial Development Through the Vision and Energy of Southern People.

By ROSCOE ADY, Industrial Commissioner, Fort Worth Chamber of Commerce.

In November of last year Fort Worth celebrated the seventy-fifth anniversary of the founding of an army outpost for the protection from marauding Indians of the handful of settlers then in North Texas. The ruins of the old fort are now in the heart of a modern city and within a radius of 100 miles there are 2,000,000 happy and prosperous people.

The "Jubilee" at Fort Worth also commemorated the fiftieth anniversary of the incorporation of the city of Fort Worth, which, at the time of its incorporation, was little more than a station on the cattle trails leading from the vast Texas ranches to the railheads in Kansas.

For four days the citizens disported themselves, the men clad in the sombreros, chaps and spurs of the early cattlemen, and the women in the bell skirts and bonnets of their grandmothers of the early seventies. The headquarters of the jubilee celebration were located in a \$4,000,000 hotel. The streets were crowded with thousands of automobiles. Overhead a giant dirigible, inflated with helium gas produced in the city, lazily floated over skyscrapers of twenty and more stories.

The story of Fort Worth's growth which we are giving today is in itself a romance of high achievement that will grip the attention of every man who has the opportunity of reading it. No one who begins to read it will stop until he has read the last word. Written not in the flamboyant style of the boom spirit which pervades many towns, this Fort Worth story presents facts and figures in a more appealing way than the writer of romance can ever throw into some thrilling novel.

Coming out of the Civil War discouraged, and poverty stricken, but not disheartened, with aims as high as when on the battlefield, soldiers who had followed Lee and Jackson built Fort Worth. Many of them have lived to see the miracle that has been wrought. From the little town incorporated some fifty odd years ago there has come a city pulsing with activity, with progress, with educational development; a city with an aggregate of 8000 acres of parks, matched by few other great cities of the country in area; a city of great schools and theological seminaries; of superb hotels and wonderful skyscrapers; a city which by virtue largely of the attention given to health conditions ranked third in the United States last year in the lowness of its death rate.

If one would visualize the energy of the people of the South, sometimes discredited by those who do not know this section and the history of its people, he can see a living illustration of it in the story of Fort Worth's growth. If he would visualize the attention given to educational work, to superb parks, and other improvements for the comfort and health of the citizens, he can see it in the things wrought in Fort Worth, as graphically told in this story we are publishing.

When the Manufacturers Record came into existence more than forty-two years ago Fort Worth was but an insignificant trading post, or, as stated in this article, merely a station on the cattle trails leading from Texas ranges to the railheads in Kansas. And what Fort Worth has done, and is doing, should stir the pulse of every town and city in the South, for there are hundreds of places that match Fort Worth in natural advantages, and only need the Fort Worth spirit, the Fort Worth vision, and the Fort Worth energy to stand out before the world for achievements such as Fort Worth has wrought.—Editor Manufacturers Record.

The trail station and trading post of 50 years ago, had developed into a city of 180,000; the principal rail center of the Southwest; the leading manufacturing city of that area; the outstanding grain, livestock and packing center of the entire South and one of the principal cotton markets of the world.

To all the thousands who visited Fort Worth during the celebration the occasion was fraught with significance, but to none did it mean so much as to the old men who sat in their banking houses or offices; rolled slowly through the crowded streets in their limousines or viewed the crowds

from the porches of palatial homes. For these were the men who had made Fort Worth.

Turning, defeated but undiscouraged from years of service in the Confederate Army, these men of Tennessee, Kentucky, Mississippi, Virginia and Georgia, had set their faces toward the West. Astride gaunt horses, or plodding beside the covered wagons that lumbered slowly toward the setting sun, they had sought and found a never, happier land.

On the crest of the bluff which rises precipitously above the confluence of the West Fork and the Clear Fork of the



TWO OF FORT WORTH'S FINER RESIDENCES.

Trinity River, they built their cabins of hewn logs or of limestone which they quarried from the bluff. There, with the unflagging courage and determination which had carried them through the years of the South's travail, they set about building a new city in a new empire.

The little settlement of traders which clung to the army post was rapidly increased as the young veterans came in. In the middle seventies a handful of men who had begun to see far into the future, began an organized effort to induce the Texas & Pacific Railway Company to push its line westward from Dallas, and in 1878 the whistle of the first locomotive was heard in Fort Worth.

With the advent of the railroad the town leaped forward. Pooling their savings; even selling off considerable portions of their holdings, these town builders in the next few years offered cash bonuses as well as large grants of land to secure other railroads.

Nearly half a million dollars in cash, and land which even then was worth many times this amount, was turned over to the railroads which one by one pushed their railheads into the fast growing city. Today 12 trunk line railroads with 18 outlets constitute Fort Worth's steam railroad facilities.

During the earlier years the vast territory to the West had been given up wholly to cattle ranching. Only such feed as was needed on the ranches was raised. Although East Texas had been one of the richest cotton producing regions of the country for many years, no cotton was grown west of Fort Worth. In the seventies the cotton farmers began in a small way to invade West Texas. By 1890 a small amount of grain was being raised west of Fort Worth. Somewhat later the sorghum grains, kaffir corn, feterita and milo maize, were introduced by the Department of Agriculture and taken up by the ranchmen and farmers of West Texas.

Prior to 1900 Fort Worth was comparatively unimportant as a manufacturing center, but soon thereafter the Armour, Swift and Libby, McNeill & Libby packing houses were built and immediately took rank as the most important industrial group in the state, a position which they have maintained. They brought with them other important industries.

Many manufacturers, attracted by the excellent rail facilities, ample labor supply and cheap fuel, established plants in the city. Their success in turn attracted others. The packing-house and principal industrial district was located in North Fort Worth, separated from the city proper by the

valley of the Trinity. Freshets raised the river and occasionally flooded the bottom lands.

The citizens remedied this situation by building a levee, with a long viaduct spanning the river. With the rapid growth of the city it became evident that the artesian wells that supplied it with water would not be a practicable source for the city that was arising.

About 1913 the city purchased 8000 acres on the West Fork of the Trinity and a dam 3100 feet long and 71 feet high was built. A lake fourteen miles long and from one to two miles wide was created. It was christened Lake Worth. Along its shore line a meandering road more than 30 miles long has been built. The land surrounding the lake and owned by the city is leased for camp sites and more than 400 of these sites are now under lease by individuals and organizations, not only in Fort Worth but in many other parts of the state.

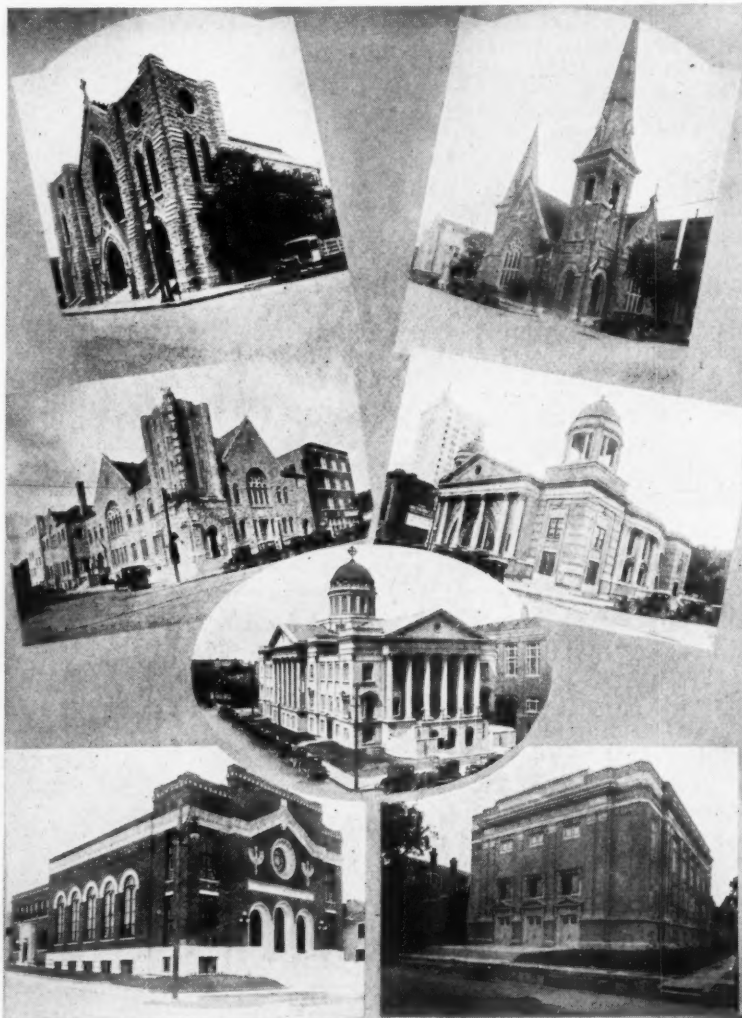
About 1917 a municipal bathing beach was laid out and a bath house erected. Since that time more than 100,000 swimmers and many times that number of visitors, have visited the Lake each season. It has become the great playground of North Texas and Southern Oklahoma. Against the green background of softly rolling wooded hills, it is a beauty spot most justly famed throughout the South. Hundreds of boats glide over its surface and half a dozen varieties of fish swarm in its waters.

In the decade between 1900 and 1910 Fort Worth increased its population by 173 per cent. In the following decade a similar growth was under way when in 1917 war was declared and almost overnight Fort Worth became a vast army camp. Immediately outside the city on the west, Camp Bowie was built. Texas and Oklahoma National

Guard troops were mobilized and became the famous Thirty-Sixth Division, which won undying fame in France. Within a radius of 14 miles of the city three flying fields were built. To them, in addition to thousands of American recruits, came the Royal Flying Corps of Canada, to train in a climate where all-the-year-round flying was possible. English, French and Italian officer-instructors by the score appeared.

The vast construction program and the presence within a small radius of 75,000 troops, gave the city's growth a tremendous impetus. Every facility was strained. In 1918 building permits reached nearly \$19,000,000 and still there was an average of two families to every house in the city.

Before the troops had departed came the news that an oil gusher had been brought in at Ranger, less than 100 miles to



A GROUP OF FORT WORTH CHURCHES.

the West. Within a few weeks the big production companies and oil field supply houses had established themselves in Fort Worth. The thousands of smaller fry that follow such a boom were swarming the streets. The Ranger field was extended in every direction and before it was a year old another strike was made at Burkburnett, 120 miles north. The congestion increased in spite of the activities of the builders.

The demand for increased hotel facilities inspired the citizens, through the Chamber of Commerce, to project a \$2,000,000 hotel. A banquet was arranged, at which the plan was announced and before the guests left the room

pools were being brought in every month and the agricultural production of Fort Worth's trade territory in West Texas was increasing rapidly.

Almost coincidentally three new building and loan companies were organized. A dozen new residence additions were placed on the market at once. During the year 1920 the buildings at Camp Bowie were razed. The camp had occupied an area roughly two miles wide and four miles long. Today, in this area there are more than 3500 homes.

Within the past few weeks a careful survey of the present population of Fort Worth has been made for local newspapers. It showed a clear gain of fifty per cent since the



AEROPLANE VIEW OF BUSINESS SECTION.

\$1,200,000 had been subscribed. Other funds were raised but with mounting building prices the demand increased until when completed, the hotel with its furnishings, represented an investment of \$4,000,000.

While it was under way, there sprung up within a radius of one block, two skyscrapers, one of twenty-four and the other of twenty stories. In the inside business district at one time \$10,000,000 worth of new buildings were under way.

Even though building prices were still at their peak early in 1920 the demand for housing was such that hundreds of residences and a number of large apartments were being built. As prices were lowered the home building activity increased. The peak of the "oil boom," if it could be so termed, passed without the citizens of Fort Worth being conscious of it, for new citizens attracted by the general prosperity were constantly pouring in. Moreover, new oil

Federal census was taken on January 1, 1920 just four years previously.

Fort Worth is neither a "cow town" nor an "oil town." True it numbers among its residents many of the old cattle kings of Texas, men whose individual land holdings run into hundreds of thousands of acres. It has among its residents, executives of the larger oil producing companies, individual operators, and thousands of their employees. There are also several hundred owners of oil lands, whose fortunes have been made in various fields where their land holdings were sold or leased to the oil companies. These families have been attracted to Fort Worth by its excellent climate, its outstanding schools and colleges, its churches and amusements.

Its mild climate and remarkable health conditions have played no small part in the growth of the city. A few years

ago the president of the Texas State Medical Association, in speaking of Fort Worth, made the following statement:

"Fort Worth is situated at the rise of the Western foothills, with an ideal elevation. It is ideally sewered, watered and drained. It is somewhat cooler in summer than that part of Texas to the east. It is centrally situated in the best climate of the State, where mild winters, cool summer nights, long sunny days, dry climate and stimulating temperature changes are most conducive to life in the open."

These natural advantages did not prevent the city from thoroughly organizing its health and sanitation work and as a result, it was announced by the Federal Government at the beginning of the present year that the death rate for 1923 in Fort Worth was the lowest of all Southern cities and

third lowest in the nation, better records having been made only by Akron and Seattle.

Fort Worth has 38 ward schools and nine high schools. The scholastic population in 1923 was well over 27,000 and considerably more than twice as great as that for 1913. Teachers' salaries in the city have been more than doubled in the last few years and the city of Fort Worth is taking the lead in improving the educational standing of the state of Texas. It is the headquarters of the State Teachers Association and "The Texas Outlook," one of the foremost teachers' journals of the country, is published here. There are 12 private schools exclusive of business colleges and musical and art schools.

In its institutions of higher learning Fort Worth has been



LOOKING NORTH ON MAIN STREET, FORT WORTH.

most fortunate. The list includes Texas Christian University, Texas Woman's College and Southwestern Baptist Theological Seminary. The former institution, founded by the Christian Church, is now non-sectarian. This institution has an enrollment of about 800. In December, 1923, Mrs. Mary Coutts Burnett of Fort Worth gave to the university, for endowment and building purposes, property valued at \$4,150,000, and which has a potential value of many times that amount. This great benefaction has opened up such

seating 5000 and claims the distinction of having the largest Sunday School attendance of any church in the country.

In 1920 the census disclosed that Fort Worth had a larger percentage of home owners than any other large city in Texas. In 1922 through the annexation of a large amount of contiguous and closely built up territory this lead was greatly increased, for the reason that in this territory the great majority of the residents owned their own homes.

A large percentage of home owners means well kept and



UNITED STATES HELIUM GAS PLANT, THE ONLY ONE OF ITS KIND IN THE WORLD.

possibilities for the institution, that other large gifts from the many wealthy native Texans of Fort Worth are assured. It was reflected by an increase of nearly 100 in the enrollment at the beginning of the mid-year term.

Texas Woman's College, with an enrollment of more than 500, is growing rapidly and has been the recipient of many gifts that have furnished it with a substantial endowment.

The Southwestern Baptist Theological Seminary is one of the largest theological schools in the country, with an enrollment of 750.

Fort Worth has 151 churches, several of which have unusually beautiful buildings. One of them has an auditorium

attractive homes. Not only in the exclusive residence districts, but in every residence section, is this true in Fort Worth. A very low percentage of negroes in the city tends to bring up the average. Many of the homes are palatial, for from the standpoint of individual wealth Fort Worth outranks all Texas cities.

Practically every house has its well-kept lawn. Flowers abound. Climatic conditions are such that chrysanthemums, roses and other flowers are frequently seen blooming in the yards between Christmas and New Year's Day. The spring, summer and autumn the lawns are a riot of flowers.

With 130 miles of hard surfaced streets and practically



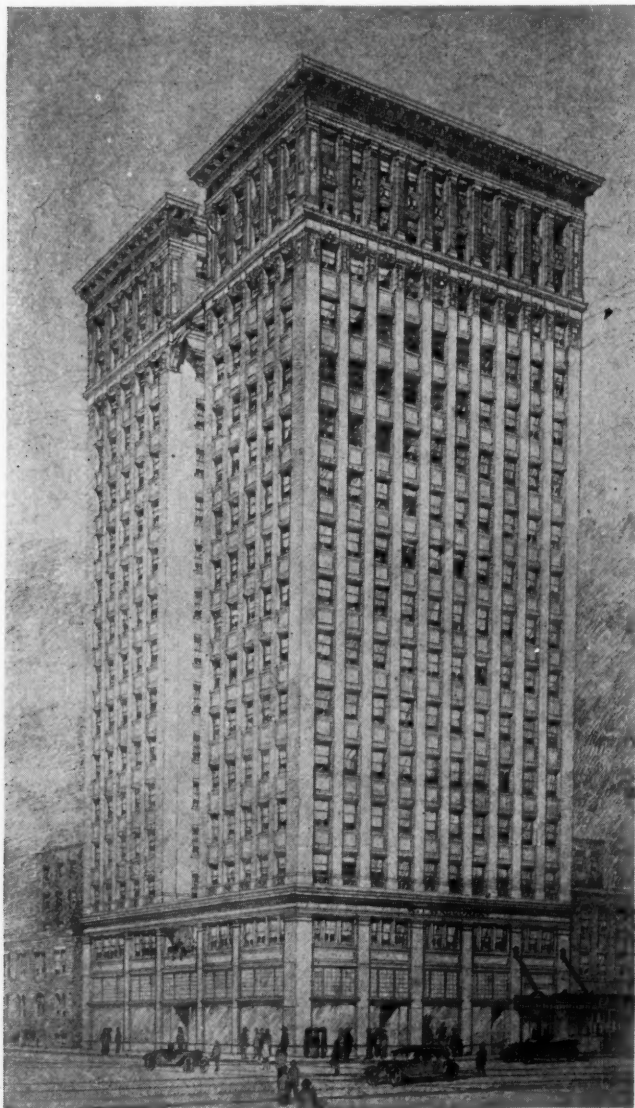
Photo by Army Air Service.

STOCKYARDS AND SWIFT AND ARMOUR PACKING HOUSES.

all the others graveled, the city has done its part toward making the residence section sightly. Trees are everywhere and in many varieties.

There are four country clubs, three of which have well-kept golf links. The municipal links are open to the people at large. Downtown clubs including the Fort Worth, the Elks and the University, bring the business and professional men into closer touch. The Fort Worth club is ready to begin the erection of a twelve story building, covering a lot 100x200 feet in dimensions, located near the business center.

The city maintains the most attractive and complete tourist camp in the Southwest. Rest rooms, reading rooms, laundry



\$1,500,000 WAGGONER BUILDING.

kitchen, free gas, water and other conveniences are provided. The camp is under the direction of the Park Board.

There are 31 parks with an area of more than 8000 acres. At Forest Park, a municipal zoo, containing hundreds of animals, is maintained. There is a concrete swimming pool, circular in form and said to be the largest open-air swimming pool of its type in the United States.

There is no secret concerning the way in which so many attractions and advantages have been secured for the people when the volume of commerce is understood. Cotton valued at \$150,000,000, livestock valued at \$116,000,000, grain valued at \$100,000,000, and petroleum valued at \$55,000,000 is handled annually in Fort Worth.

The 1920 census of manufactures gave Tarrant County, of

which Fort Worth is the county seat, first place among all the counties southwest of Kansas City in the value of manufactured products. In this enumeration counties were taken as metropolitan manufacturing districts for the reason that in many instances the largest factories properly belonging



BIG PLANT OF FORT WORTH POWER & LIGHT CO.

to the cities were located outside the city limits. Tarrant County's total was \$155,000,000, while that of its highest scoring competitor was \$116,000,000. The value of Tarrant County's manufactured products for 1923 will exceed \$175,000,000.

Probably the outstanding reason for this supremacy is Fort Worth's rail facilities. Its eighteen rail outlets, plus a belt line and two interurban lines, give it perfect radiation. More than 1,300,000 loaded freight cars annually are consigned to or interchanged at Fort Worth. Through its yards passes more than 50 per cent of all freight entering the state.



HOME OF THE GRAIN AND COTTON EXCHANGE.

Headquarters for the Eleventh District U. S. Railway Mail Service are located here and with 96 mail trains entering and leaving the city daily, its parcel post service is unexcelled.

Four pipe lines carrying natural gas from 15 distinct fields, enter the city. Gas is almost universally used for cooking and heating and an industrial gas rate scaled down to 16 cents for large consumers converts many industries to this fuel.

There are nine petroleum refineries with a daily crude capacity of 67,000 barrels, providing an abundant supply of fuel oil, available without freight charges.

To the West and Northwest and within a radius of 50 miles are bituminous coal fields of almost unlimited extent. Of late years, however, the low price of fuel oil and gas, and the low handling cost involved in the use of these fuels, have practically eliminated the use of coal. Cheap fuel means cheap power. The plant of the Fort Worth Power & Light Company at Fort Worth is the largest in the Southwest, developing 75,000 H.P. A minimum rate as low as one cent per KWH is made to the larger consumers carrying a constant load.

In Lake Worth the city has a reservoir of approximately thirty billion gallons capacity, the water being brought to the city by gravity. It passes through a filtration plant which brings it to the highest state of purity. Many industries, however, secure their water supply from artesian wells which at from three to four hundred feet depth reach a water sand, that through an eight-inch line will deliver 100,000 gallons per day. At greater depth another sand is reached from which a flow of double this amount is obtained.

One of the most important reasons for Fort Worth's success as a manufacturing center, is its labor supply. The many large industries which have been established in the city for many years have attracted an unusual supply of labor. The railroads centering in the city bring a constant stream of transient labor. The Labor Commissioner of Texas has said of Fort Worth that she has a better supply of labor and has experienced less trouble with labor than any other city in the state.

Managers of the Swift, Armour and Montgomery Ward plants at Fort Worth have stated that the supply of labor secured there is more satisfactory than that at any other point where these companies operate.

Fort Worth is an open shop city. A recent survey of factory workers, which embraced more than 13,000, disclosed the fact that 84.6 per cent of the number were working under open shop conditions and that of the remainder more than one-half were engaged in the printing trades.

While the packing houses constitute the outstanding industrial group, there are many other lines of vast and ever

these giants of the air. The great assembling plant of the Chevrolet Motor Company formerly employing 300 persons is soon to be reopened with a force of 700. Included among the establishments turning out metal products are four iron foundries, three brass foundries and numerous plants making windmills, well machinery, pumps, batteries and piston rings. Wood-working plants include the largest furniture factory in the Southwest as well as smaller factories in this line, nine planing mills and a cooperage plant.

Among food products made in Fort Worth are canned goods of all kinds, bakery products, macaroni and spaghetti, butter, oleomargarine, ice cream, confectionery of all kinds, extracts,

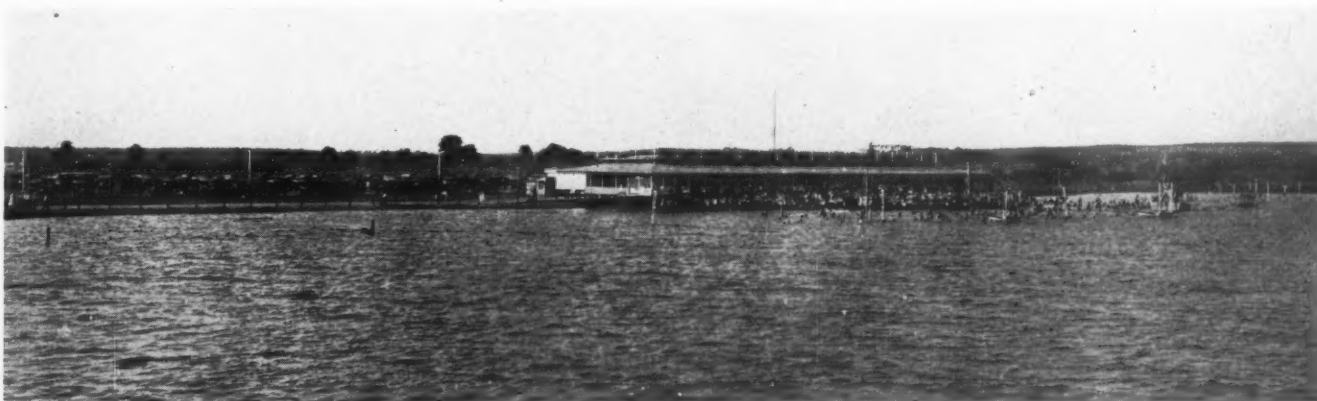


ONE OF THE IMMENSE GRAIN ELEVATORS.

soft drinks and a score of others. There are ten flour and feed mills turning out 6000 barrels a day of grain products; five creameries and four cotton oil mills.

There are 14 garment plants, and the largest and best equipped printing plants in the state. Brick, pottery, drugs, chemicals and serums are other important lines of manufacture.

Under construction in Fort Worth as this article is being written are two cement plants, a steel plant which will make steel by the electric process, and a lubricating and wax plant,



MUNICIPAL BATHING BEACH—LAKE WORTH, JUST OUTSIDE THE CITY.

growing importance. The nine refineries turn out petroleum products valued at \$52,000,000 per year. There are four great plants manufacturing tools and oil country supplies. The United States helium gas plant is the only one in the world producing this product. It has cost more than \$5,000,000 and the investment is constantly being increased.

A mooring mast for the large dirigibles is ready for shipment to Fort Worth. After its installation these air ships will be brought to Fort Worth for inflation with helium, and Fort Worth has been named as one of the four stations for

ranging in cost from \$1,250,000 to \$2,000,000 each and which will employ a total of 1000 men. A grain elevator of 1,750,000 bushels capacity is nearing completion, giving a total grain storage capacity of 7,500,000 bushels.

Definitely secured for the city and to be built during the first half of 1924 are a creosoting plant, a chip paper plant, a bag factory, a garment factory, boiler and tank plant, car repair plant and flour mill which will add 1500 more employees to Fort Worth's payroll.

This may seem a pretentious industrial program but direct-

ly ahead looms a much larger one. Fort Worth is irrevocably bound up with West Texas, which constitutes her trade territory. West Texas is truly "The Promised Land." In it today, is going forward the most significant development that has occurred in American agriculture in twenty years.

One hundred families a day are establishing homes in West Texas, which has become the haven of the small cotton farmer from East Texas and the eastern cotton growing states, routed by the boll-weevil. The experience of the last ten years has demonstrated that in West Texas there is an area wholly immune from the boll-weevil, ideally adapted to the growing of cotton, and larger in area than the entire state of Georgia, which up to a few years ago next to Texas was the largest cotton producing state in the Union.

When the weevil army began its devastating march northward from Laredo, where it entered the country from Mexico,

As a result there are on the market today ten ranches of from 70,000 to 300,000 acres, which have been cut up into quarter section farms. On December 15 the press announced that two additional tracts, one of 135,000 acres and one of 151,000 acres, were being surveyed and abstracts prepared, for sale in small tracts.

In addition to these large projects there are innumerable smaller tracts being sold off. Prices range from \$20 to \$35 per acre.

Nor has the agricultural progress of West Texas been confined to cotton growing. It has developed into the greatest wool and poultry producing region in the South. Government reports show that its production of sorghum grains increased from 5,000,000 bushels in 1909 to 56,000,000 bushels in 1919.

Almost a sure crop, and abundant in production, these grains have enabled the farmers of West Texas to raise



FORT WORTH RAILROAD YARDS FROM THE AIR—PHOTO BY ARMY AIR SERVICE.

it progressed practically to the limit of the cotton belt. Its progress to the eastward was never interrupted and it has swept the entire cotton belt in that direction. But after reaching a line running from northeast to southwest less than 100 miles west of Fort Worth, it came to an abrupt halt. Although that line was reached several years ago it has never since made appreciable further progress, and the fact that the vast area beyond it is immune to its ravages has been demonstrated. There are several reasons for this: a high altitude; a comparatively dry climate; the fact that there was little or no timber in which the pests could hibernate and the presence throughout the area of multitudes of ground ants which are its deadly enemy.

West Texas does not offer a makeshift haven to the cotton planter. Experience has proven that in six out of ten years a good crop can be produced and that in the other four years the planter can more than make expenses.

poultry, hogs and cattle profitably and there are few farms in the section where this is not being done.

Wheat production in Texas increased from 2,000,000 bushels in 1909 to 36,000,000 bushels in 1919 and more than 60 per cent of this production is in West Texas.

With a population of 1,600,000 in 1920 this section now has more than 2,000,000 inhabitants. Its population is 96.8 per cent native born white. Its per capita wealth is more than double that of the nation at large. More than 60 per cent of its farms are operated by owners.

It is this territory that is building Fort Worth, for Fort Worth buys its cotton, cattle, grain and oil; finances its industries and sells its supplies.

A new air line railroad penetrating the very heart of this new empire is to be built from Fort Worth and with its construction the commerce between Fort Worth and West Texas will be vastly increased.

.
=
f
o
d
f
l,
e
5
-
st
at
d
e
e

s
s
r
s
r
n
t
t
s
s
s
st

Ap
F

Ed
tion
dal
to
me
S
of
pro
bro
fut
ad
fee
?
the
is
sh
we
I
yes
co
tha
and
?
po
wa
high
don
ind
ma
sup
V
ten
eig
high
high
spi
V
ton
Ne
Hi
are
jac
ore
To
I
of
for
T
onl
per
A
is
dia
S
fre
mu
and
sh
san
T
ing
is
Hi

Fort Smith a Center of Great Natural Wealth—A Summary of the City's Industrial and Other Activities.

Chamber of Commerce,

Fort Smith, Ark., March 20.

Editor Manufacturers Record:

A recent news item in the local press reported the completion of a natural gas well which tested 38,000,000 cubic feet daily flow. One-half the production of this well is sufficient to supply the entire needs of Fort Smith for domestic, commercial and industrial heat and power.

Similar news reports have been telling the natural gas story of the district for the past several months. Ten wells, each producing from 23,000,000 to 40,000,000 cubic feet, have been brought in. They have been cased, capped and sealed for future use, for the present daily flow of natural gas in fields adjacent to Fort Smith totals more than 700,000,000 cubic feet.

The city has had natural gas for thirty years. Some of the oldest wells are still producers and the proven territory is only partially developed. The gas is dry and very efficient, showing at test 1051 B.T.U. The fields are dry and the wells do not drown out.

In addition to the assured supply of natural gas for many years, Fort Smith is situated in the midst of the mid-continent coal fields of Arkansas and Oklahoma, which contain more than four billion tons of coal geologically measured, located and yet unmined.

The big power plant of the city now has available electric power, produced from natural gas, at rates comparable with water power rates. Moreover, this plant is connected by high power lines with another similar plant, which gives double assurance of uninterrupted service for the growing industries attracted to Fort Smith by the cheap power, raw materials, good living conditions, railway facilities, labor supply, surrounding agriculture and market.

Within a hundred miles of the city there is grown on a ten-year average 350,000 bales of cotton annually. More than eighty per cent of this cotton is suitable for weaving into high grade fabrics. This means that the raw materials in high grade cotton near Fort Smith would support 500,000 spindles making gingham, etc.

Within the city limits on railway switches are millions of tons of shale suitable for building and paving brick and tile. Near Fort Smith are large deposits of clays and kaolin. High grade sand and gravel for general building and concrete are taken from the Arkansas River bed, and bars and adjacent deposits. South of the city are vast deposits of iron ore and manganese, slate and chalk beds for cement plants. To the north are lime, lead, zinc and glass sand.

Fort Smith is nearly in the center of the last great supply of hard and semi-hard woods and is close to the vast pine forests.

The property value of Fort Smith, within the city limits only, is \$66,000,000. The total tax rate is .0322 on a fifty per cent assessment. Population 35,000.

All streets in the city are paved and the sewerage system is complete with mains from eleven feet to eight inches in diameter.

Sanitary conditions are unsurpassed. The city affords free daily garbage collections, disposed of in the modern municipal incinerator. There are no malarial mosquitoes and few flies. The vital statistics of the health department show for the past twelve months a birth rate of 33 per thousand and the low death rate of 10.5 per thousand.

The city has a fine departmental High School, accommodating 1600 pupils and 14 modern ward schools. Each school is in a whole block, surrounded with play equipment. The High School has a standard, fully accredited, four-year course

of study. The school plant has a value of over \$2,000,000.

Swimming pools, beach bathing, boating, tennis, golf, hunting and fishing are all popular in season. Fort Smith is set in the midst of a great natural park. Fine streams and wooded mountains invite picnic and camping parties to a thousand delightful retreats, including the summer camps of the Boy Scouts and Boy Rangers and a hundred resorts of the Ozarks.

The city is clean, for factories using natural gas make no smoke and paved streets create but little dust. Roses bloom the year round. Flowers and shrubs bud and flower and fruit from early spring to late autumn.

There is only one word which expresses the agricultural situation surrounding Fort Smith and that is "diversification." Every plant, grain, vegetable, fruit, flower and shrub grown in the temperate zone with very few exceptions, thrives here. The locality is a famous market for fruits and vegetables, producing the earliest and finest cantaloupes, strawberries, tomatoes, lettuce, radishes, etc. Two crops of Irish potatoes are grown annually on the same land. The Fort Smith Nancy Hall sweet potato is gaining national recognition.

This is peculiarly the spot where "Corn and wheat and cotton meet." All small grains and forage crops yield abundantly. The sorghum in Fort Smith's immediate territory supplies an immense sorghum plant, which also furnishes the growing dairy industry with important by-products of stock feeds.

Just north of Fort Smith are great apple orchards and south and west are the large orchards of Elberta peaches.

In Fort Smith's immediate trade territory there is a native white and intelligent population of a half million. The sturdy boys and girls first come to Fort Smith looking for employment. If the factories, the offices, stores, banks, schools and homes can give these men and women work, they will become permanent citizens and make their homes here. This is one reason why the city is seeking more industries, to afford dependable wage income for these, her own people, and, also to attract other workers of this same class from the surrounding territory.

Fort Smith is served by five main line and four branch railroads, and interurban trolley to Van Buren and South Fort Smith. The present highway programs in Arkansas and Oklahoma will complete connections on all North-South and East-West highways within two years.

The 88 wholesale houses in Fort Smith re-sell more than \$50,000,000 of goods each year, and the annual factory production exceeds \$25,000,000. The debits to industrial accounts in the city's four banks totaled \$150,000,000 in 1923.

Fort Smith has 121 diversified factories, including 14 furniture factories, wagon, truck body, handle, rim and bow, wood stock, novelty, broom and other wood working industries. There are six glass plants making window glass, bottles, lamp chimneys, lantern globes, tumblers, cylinders, etc.; three zinc smelters, sorghum and stock feed plant, biscuit factory, pants, overalls and tent and camp equipment factories. The scissors factory distributes the highest grade of cutlery.

Other plants include harness, saddles, pharmaceutical and chemical preparations, floor sweepers, candles, coffee, cigars, coffins, well buckets, cotton seed products, cotton compress, merchant iron and steel, castings, trucks, wheelbarrows, springs, mattresses, brick, tile, engraving, bound books, theatre, circus and race track tickets in all languages, bottlers products, bakery goods, creamery butter, cereals, boilers, drill bits, sash and doors, jewelry, ice cream, boxes and shooks, mirrors, millinery, canned goods—and fruit jars and glass package ware from the Ball Brothers plant now being built.

RAY GILL, Secretary.

\$300,000 for Arkansas State Fair Buildings— Other Interests Will Also Erect Structures..

E. G. Bylander, secretary-manager of the Arkansas State Fair, Little Rock, advises the MANUFACTURERS RECORD that the fair will expend about \$300,000 for the erection of a number of exhibit buildings, construction to be of light steel, brick and stucco. Other interests will erect additional structures, among which will be a \$35,000 building by the public utilities corporations, a main entrance building by the Arkansas Light & Power Co., of Pine Bluff, and a building for negro exhibits by negro chambers of commerce.

Pierce & Robinson of Chicago, Des Moines and St. Louis, are the architects.

Completing Galveston Seawall Improvements.

Galveston, Texas, March 22—[Special.]—Work of placing the fill and riprap end protection in connection with the construction of the seawall extension completed in December, 1923, is now under way, according to Major L. M. Adams, Corps of Engineers, United States Army. This project consists of the construction of 13,160 linear feet of seawall, 17 feet high on a base 20 feet wide, extending from Sixth Street in the east end flats to the south jetty, and with a dredged fill behind it 100 feet wide and 1 on 6 rear slope, together with the construction on this fill of a paved boulevard of brick and concrete, 100 feet wide.

The work of constructing the seawall extension and fill and the necessary paving is done by hired labor, none of the construction work having been let out to contract.

The firms furnishing the major items of equipment and materials are as follows:

Equipment: Locomotive cranes—The Brown Hoisting Machinery Co., Cleveland, Ohio; Link-Belt Co., Chicago, Ill.; Industrial Works, Bay City, Mich.; Ohio Locomotive Crane Co., Bucyrus, Ohio; Orton & Steinbrenner Co., Chicago, Ill.; and Pawling & Harnischfeger Co., Milwaukee, Wis. Hoisting engines and boilers—Lidgerwood Manufacturing Co., New York City; Clyde Iron Works Sales Co., Duluth, Minn.; American Hoist and Derrick Co., St. Paul, Minn.; and Lambert Hoisting Engine Co., Newark, N. J. Steam pile drivers—Vulcan Iron Works, Chicago, Ill. Concrete mixers and chuting plant—Lakewood Engineering Co., Cleveland, Ohio. Concrete mixers—Foote Co., Nunda, N. Y. Steel forms—Blaw-Knox Co., Pittsburgh, Pa.

Material: Crushed stone and riprap—Dittlinger Lime Co., New Braunfels, Texas; granite riprap—Darraga Bros., Marble Falls, Tex.; sand—W. L. Jones & Co., Galveston, Tex.; cement—Texas Portland Cement Co., Dallas; vitrified paving bricks—Coffeyville Brick and Tile Co., Coffeyville, Kansas; piles and lumber—South Texas Lumber Co., Houston, and Reliance Tie and Piling Co., Houston.



CROSS SECTION OF SEAWALL AND STEEL FORMS USED IN CONSTRUCTION.

Will Erect 55 Residences in Richmond at Cost of \$500,000.

Richmond, Va.—All the remaining lots in Stonewall Courts numbering fifty-five, have been purchased by Muhleman & Kayhoe of this city who will improve each lot with a modern residence. The dwellings will be of individual design and will contain seven rooms and bath. Aggregate cost of construction will be about \$500,000.

West Virginia Coal Properties Bought for \$1,000,000.

Clarksburg, W. Va., March 28—[Special.]—Purchase has been made by the Wilbur Fuel Co., D. J. Carter, Clarksburg, president, of plants and holdings of the Vulcan Coal Co. and the Eastern Utilities Coal Co. operating in Grant district of Harrison county. The consideration is approximately \$1,000,000. The Wilbur Fuel Co. was organized expressly to take over these holdings, including 1198 acres in fee, in addition to 468 acres on which there is a town of 115 houses and plant buildings. The properties are near the town of Lost Creek and the new company will have an office there, as well as in Clarksburg. Coal is mined in the Redstone vein.

The Wilbur company has secured a contract for the delivery of several hundred thousand tons a year to the Pennsylvania-Edison Co., a subsidiary of the General Gas & Electric Co. of New York, in addition to another large contract for 100,000 tons.

Steady Increase in Ohio River Traffic.

Huntington, W. Va., March 29—[Special.]—There has been a continued increase in river traffic on the Ohio River in the last year or two, according to a recent statement by Major H. M. Trippe, in charge of the U. S. Engineers office at Huntington.

Major Trippe thinks that the next step in the growth of Huntington will be the erection of a river freight terminal to replace the present wharf and steamboat landing. Poor wharfage facilities are partly responsible for the slow growth of river traffic.

Three large steel and iron mills it is said, have followed the example of the Jones & Laughlin Steel Corporation and are installing barges to transport their products from Pittsburgh and Wheeling to Memphis, St. Louis and New Orleans.

As showing the possibilities of river transportation it is pointed out that the Standard Oil Co. is taking advantage of the slack water between Huntington and Pittsburgh, having installed six steel barges in which oil is being shipped from the Parkersburg refinery to Huntington, Charleston and other points.

West Virginia Supreme Court Decision Protects Right of Companies to Evict Employees on Strike from Company Houses.

Charleston, W. Va., March 22—When is a man's home his castle? It has been the general theory that the courts from the old English days down have held this to be a fact under any circumstances, but this basic "rule of property" was modified by the West Virginia Supreme Court of Appeals this week, in reversing a circuit court decision in an eviction case. It finds the "man's home his castle" theory indefensible in a case where the house is an essential part of the company's plant, where he is not a tenant, unless it be on sufferance, and where he terminates his rights the day he voluntarily quits working for the company.

This finding will establish a precedent for state courts everywhere, and will have a widespread effect on the mining industry. The "rule of property" will be invaluable, lawyers say, as a weapon in federal courts proceedings.

In recovering possession of his property from a striking miner who refuses to vacate a company house the owner may use necessary physical force such as knocking down doors or tearing out windows of the house, or may even tear down the house if he chooses, while evicting a striking tenant, who refuses to give up possession of such house. This decision was handed down in the case of Watt Angel, vs. Black Band Consolidated Coal Company, of Kanawha county, which was a test case in the state courts, on the part of the defendant company, to obtain the "rule" which has been requested by federal courts when injunction cases are heard.

Quite naturally the case was bitterly fought throughout, and although the plaintiff is said to be in but moderate circumstances the leading legal lights of the union lawyers of West Virginia participated in the case. C. J. Van Fleet and Harold W. Houston appeared in circuit court before Judge Arthur J. Hudson, where the plaintiff won a judgment for \$300. When the company appealed, the briefs for the plaintiff were drawn up by Stewart & Witt, of Charleston, and J. Howard Hunley was counsel for the plaintiff in arguing the case before the Supreme Court of Appeals. Captain C. B. Avis, of Charleston, represented the company throughout and stated after receiving a copy of the decision, that he had won a basic decision in law that will rob the union miners of one of their most effective weapons heretofore used in curtailing production of coal during strikes.

"It has always been contended that a man's home is his castle, but this case brought out the point that where it is part of the company's plant it is not," said Captain Avis. "It was on this theory that gunmen were imported into this state and shot up the town of Matewan and many other villages, on the contention that they were acting in self defense when they committed murder, as the mine owners were trying to recover possession of their homes by legal processes in eviction cases. In those cases the mine owners took every legal precaution to secure their rights, only to meet with mob law. Now the court has held simply that the legal precaution was unnecessary, that the mine owner had every right to recover his property without even using officers of the law, and that the miners who were supposed to be using offensive tactics to 'defend their castle' were really trespassers.

"This is the first decision of its kind that I have been able to find in law. It affords a precedent for lawyers in other states, as well as fixes the law in West Virginia. It also simplifies the procedure of counsel for mine owners applying to the federal courts for mandatory injunctions against striking miners who threaten to curtail the production of coal by remaining in the houses of the company, and thus preventing the company from bringing in willing workers. By

the ruling that such a striker is a trespasser it is a virtual decision that the trespasser is also a violator of a federal injunction which restrains him from trespassing, and he is therefore in contempt of federal court, as well as being without any rights in the premises in state courts."

The syllabus in the case was written by Judge James A. Meredith, president of the court, who appeared to exercise extreme care in the finding and the arguments therefore. The decision stated:

A coal mining company owns a number of dwelling houses for the use of those employed in and about its mines; they form a part of its plant and are necessary to the successful conduct of its business. They are rented to its miners at a nominal charge, hardly sufficient to cover repairs and insurance. The rent or charge is calculated at so much per month, but it is paid every two weeks by deductions from the miners' wages as they are earned. Miners are not required to live in the houses and those who do not are paid the same wages as those who do, all being paid at so much per ton.

The houses are not kept for rent generally, but are occupied only by the company's employees, and then only by its consent. Under these conditions a miner is employed, is furnished a house, he moves in, continues his employment for a number of years, and the deductions for rent are regularly made from his wages every two weeks; he then voluntarily quits work and pays no rent thereafter. There being no agreement that he should occupy the house for any definite period, when he ceased work for the company his right to occupy the house also ceased.

In the case in point the miner had remained on the premises for more than six months after he quit work for the company. The appellate court held that the fact that the miner had not been thrown off the premises as a trespasser indicated that he was staying on with the consent of the company, and this made him a "tenant at will" or a "tenant by sufferance," although it implied no contract. It merely gave him a right to the property until such time as he was told to get out. Angel was given two notices but ignored both of them, and then one afternoon the company moved his furniture out of the house, while both Angel and his wife were at home and piled the stuff about fifty feet from the house. The company's agents then covered it with a tarpaulin as best they could and placed a guard over them. The plaintiff claimed that they were not completely covered and that the weather was cold and the frost damaged his goods during the four days they were exposed. The appellate court held that if the tarpaulins didn't cover them it was up to the owner of the goods to protect his property, and that the company wasn't responsible for frosts.

After finding that the judgment of \$300 damages was excessive the appellate court reversed the judgment, set aside the verdict and granted a new trial, and made special reference to the fact that Angel left his home at Olcott and hurried to Charleston to see his lawyers, instead of looking after his goods.

"He was looking for a law-suit and got this one started before he found a place for his goods," the decision stated.

Will Build \$250,000 Hotel at Miami Beach.

Miami Beach Fla.—J. C. Andrews of Miami Beach and West Point, Ind., has awarded contract to George A. Fuller Co., of New York, for the erection of a \$250,000 hotel here. Plans have been prepared by Kiehnel & Elliott, with offices at Miami, Miami Beach and Pittsburgh, Pa. The structure will be of reinforced concrete and hollow tile, three stories and tower, with foundation of wood piles and concrete, cement floors, and composition and tile roof. Sub-contracts have not been awarded.

Protests Against an Action of the Treasury Department.

W. J. BENNETT, Secretary, Business Men's Association, Dalhart, Tex.

The attention of the writer has just been called to an editorial in a Texas paper which begins as follows:

"Sale of Treasury savings certificates has been stopped in 18 states by Secretary Mellon because of the protest of bankers of those states, who assert that the sale of the Government certificates takes money out of their territory."

It would seem to the writer as though this is going rather far, both on the part of the bankers of those states and Secretary Mellon, who at the request of these bankers has deprived thousands of people with limited means from this form of investment. And for what reason? To force into circulation, or rather into the banks if possible, the money these people were investing in certificates.

It is conceded that the sale of the certificates has produced a saving and thrift spirit in thousands of people of our land, and that it has been one of the greatest educational agencies not only with children but with many grown people, who today have saved by this means money they otherwise would not have.

The writer wishes to ask if this was a wise, a just thing to do, and if it is not a move that will cause many people to think there is something wrong with the banks and their system of operation. Speaking for this section of the country, I can say it is looked upon with suspicion, and as being unjust. The question is being asked, "What would be the result if the request was made by thousands of the people, and the few hundred bankers opposed the project?" Why is it necessary and it must be necessary otherwise it would not be made? The bankers and even Secretary Mellon admit it for it has been done, and they surely would not like to be put in the attitude of saying they had done or caused to be done something that was not necessary.

A few more moves to take privileges like this from the people at large, and just a little more mismanagement as shown in 1920 and the people are going to correct the system that makes such things possible.

Duval County to Build \$200,000 Hospital.

Plans are being prepared by H. J. Klutho of Jacksonville, Fla., for a \$200,000 hospital building to be erected by Duval County in that city. The building will be of brick, concrete and hollow tile, two and three stories, with concrete foundations, composition shingle roof and marbleoid and cement floors.

In a letter to the MANUFACTURERS RECORD Mr. Klutho refers to the building as follows: "This is an addition to a hospital built two years ago solely for tuberculosis patients. By adding to it county hospital units, the Board of Charities expects to make this a combination building where all charity patients of the county, tubercular and others, will be taken care of.

"The plans will be rather unique, inasmuch as the tubercular patients, white and colored, will have to be separated from each other as well as separated from the general patients. The male and female of each will also be kept separate. This plan is interesting because it has probably never been attempted before."

Meeting of Florida Lumber and Millwork Association.

Orlando, Fla., March 31—[Special.]—The regular annual meeting of the Florida Lumber and Millwork Association, with headquarters in this city, will be held at the Angebilt Hotel here, on May 8 and 9. J. P. Williams is secretary and treasurer of the association.

Sub-contracts for \$850,000 Professional Building.

Oklahoma City, Okla.—Reinhart & Donovan, general contractors for the erection of the proposed \$850,000 building to be erected here for the Physicians' and Dentists' Building Co., have awarded sub-contracts as follows: For reinforcing steel and removable steel forms, Midwest Steel Co.; ornamental iron and bronze and hollow metal doors, J. B. Klein Foundry Co.; heating and plumbing, Cook & McDonnell Co.; electric wiring and builders' hardware, McEldowney & Son; metal windows, Bissell Builders' Supply Co.; glass and glazing, United Plate & Window Glass Co.; cut stone, O. K. Cut Stone Works; excavating machinery, Wylie Bros.; marble, tile and terrazzo, Taylor Marble & Tile Co.; lumber, Greever-Roberts Lumber Co., and liability insurance, T. E. Braniff & Co., all of Oklahoma City.

Contracts were also awarded to the Oklahoma City office of the Truscon Steel Co., of Youngstown, Ohio, for metal lath; American Sash & Door Co., Kansas City, Mo., for sash and doors and to the Woodbury Granite Co., Hardwick, Vt., for polished granite. The Cook & McDonnell Co. let sub-contract to Tom Dolan Heating Co., Oklahoma City, for heating ducts. Contract was awarded to the Oklahoma City office of the Otis Elevator Co., New York, for elevators.

The building will be 12 stories, 75 by 140 feet, of reinforced concrete and Bedford stone construction. Layton, Smith & Forsyth of Oklahoma City, are the architects.

\$1,000,000 for Improvement of Public Utilities.

Miami Beach Fla.—Improvements to cost \$1,000,000 will probably be made to facilities here of the electric light and power and street railway systems, which have recently been acquired by S. R. Inch and the American Power & Light Co., of New York, according to a statement of C. E. Groesbeck, president of the company. Two ordinances are now being considered by the city council granting additional franchise rights to the company, and if favorable action is taken, it is understood that the improvements will soon begin.

The present capacity of the power plant is 4000 kilowatts. It is intended to install a 5000 kilowatt steam turbine which will be able to carry a capacity four times that of the present load. Improvements are also planned for the street railway system, and with this purpose in view, A. B. Patterson, of New Orleans, has made a survey of the Miami Beach properties. Improvements outlined are expected to be completed by January 1, 1925.

Increase in West Virginia's Coal and Coke Production.

Charleston, W. Va., March 28—[Special.]—Coal and coke produced in West Virginia during the fiscal year ended June 30, 1923, according to a preliminary report of the West Virginia Department of Mines, had a value of \$282,642,609. There were produced a total of 87,031,408 gross tons of coal with a value of \$276,759,877, the total coke output being 823,912 net tons valued at \$5,882,731. There was an increase of 16,143,205 gross tons of coal over the preceding fiscal year, the increase in the production of coke amounting to 648,756 net tons.

McDowell county leads all others in coal production with 14,195,510 tons, Logan county ranking second with 10,769,022 tons.

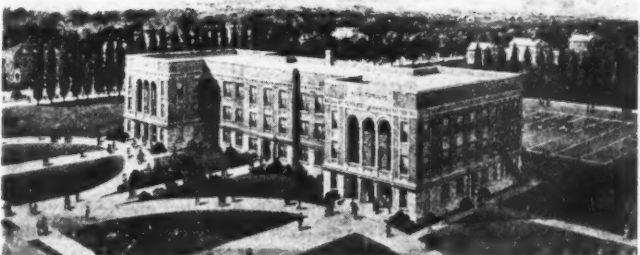
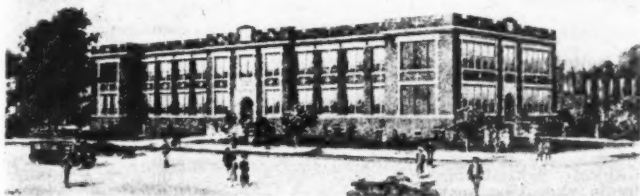
Bids for \$300,000 Hospital Building.

New Orleans, La.—Bids will be received until April 19 by the Board of Administrators of Charity Hospital here, F. W. Evans, vice-president, for the erection of a four-story building to cost about \$300,000. The structure will be fire-proof, 60 by 120 feet, of reinforced concrete. Plans and specifications may be secured from the office of Favrot & Livaudais, Ltd., architects.

Three Modern North Carolina Schools.

As typical of present-day school construction in the state, an accompanying illustration presents views of three of the modern school buildings being erected at Lumberton, Concord and Hickory, North Carolina. Each of these buildings is of slow-burning, fireproof construction, with steel frames; they were designed by C. Gadsden Sayre of Anderson, S. C., Raleigh and Greensboro, N. C.

The Lumberton building is nearing completion at a cost of about \$125,000. It contains 14 class rooms, gymnasium, auditorium and other facilities and is equipped with a split



NORTH CAROLINA SCHOOL BUILDINGS OF THE NEW AND BETTER KIND.

system of steam heating and ventilating. J. W. Stout & Co. of Sanford, N. C., is general contractor, and G. B. Kirkman of Lumberton, plumbing contractor.

The Concord building also is nearing completion and will possess all modern high school facilities. It is of Kingsport rough texture brick with terra cotta trim. There are six laboratory rooms on the first floor for biology, physics, general science and home economics department, together with cafeteria, gymnasium, toilet rooms, showers and lockers. On the second floor there are six class rooms, auditorium and offices, and on the third floor, library reading room and six class rooms. The following are contractors: John Query, general contractor, and Concord Plumbing Co., plumbing, both Concord; Dermott Heating Co., Durham, N. C., split system of heating and ventilating; Johnson Co., New York, system of heat control; W. Drummond Marrow Co., Newport News, Va., electrical equipment; E. H. Sheldon & Co., Muskegon, Mich., science equipment; Southern School Supply Co., Raleigh, N. C., opera chairs, and General Seating Co., Charlotte, desks.

General contract has recently been awarded to Jewell, Riddle & Co., Sanford, for the erection of the Claremont high school at Hickory, which will cost about \$225,000. The building will be three stories, 240 by 114 feet, of brick, concrete, tile and terra cotta, with composition roof and flooring.

Contract for a warm air system of heating and ventilating has been awarded to the American Heating & Ventilating Co. of Raleigh, and to the James C. Shuford Co. of Hickory for plumbing.

\$400,000 Apartment Building for Little Rock.

Little Rock, Ark.—Plans have been announced here for the erection of a \$400,000 apartment building in this city. The structure will be erected by Memphis interests which have organized the Rackensack Apartment Corporation, of which Charles M. Bryan is president. It will be seven stories, of reinforced concrete, brick exterior trimmed with terra cotta. The site measures 125 by 150 feet. There will be a total of 52 apartments of two and three rooms each, but arranged under the "efficiency" plans to provide accommodations of the average four and five-room apartments.

Wittenberg, Delony & Watts of Little Rock, are the architects, and it is stated that the project will be financed by the Fidelity Bond & Mortgage Co. of St. Louis, which has underwritten a first bond issue of \$200,000.

Contract for \$300,000 Church Building at Tulsa.

Tulsa, Okla.—Contract has been awarded to J. W. Van Horn of this city by the building committee of the First Presbyterian Church here, Edward Watters, secretary, for the erection of its proposed building at a cost of more than \$300,000. The building will be fireproof, 95 by 140 feet, brick and stone, with concrete foundation and slate and gravel roof. Hawk & Parr of Oklahoma City are the architects.

The following are chairmen of various committees handling different phases of the work: E. P. Harwell, furnishings and decorations; C. E. Buchner, lighting and lighting fixtures; W. F. Stahl, organ, and J. M. Chandler, heating and ventilation.

To Build \$2,000,000 Store Addition.

Washington, D. C.—Soon to begin construction of a \$2,000,000 addition to its store here, the Hecht Company plans to have the building ready for occupancy by June, 1925. The structure will front 125 feet on Seventh street and 155 feet on F street, rising to a height of seven stories. It will be of concrete, with glazed white terra cotta front having lower columns of granite. Five passenger and two service elevators will be installed.

Atlanta to Vote on Bonds Totaling \$900,000.

Atlanta, Ga.—A number of ordinances are being considered by the city commission of Atlanta providing for an election on bond issues aggregating \$900,000. Each ordinance specifies May 31 as the date of election, the largest item being for \$450,000 for schools. Other improvements covered by the ordinances, include \$240,000 for sewers, \$60,000 for fire stations, \$45,000 for paving and \$105,000 for parks and playgrounds.

Plan 715 Miles of Pipe Line in Texas Oil Fields.

Fort Worth, Tex., March 29—[Special.]—The McCorkle Pipe Line Co., with offices in the Burk Burnett Building, this city, contemplates the construction of approximately 715 miles of pipe line through the oil fields of Texas, work to start about the first of May. No contracts have been awarded as yet, nor has the company placed any orders for the purchase of any equipment or material.

A transmission line extension from Warsaw to Kenansville, North Carolina, is being constructed by the Tide Water Power Co. of Wilmington, N. C. Completion is expected by April 15.

Protests Against an Action of the Treasury Department.

W. J. BENNETT, Secretary, Business Men's Association, Dalhart, Tex.

The attention of the writer has just been called to an editorial in a Texas paper which begins as follows:

"Sale of Treasury savings certificates has been stopped in 18 states by Secretary Mellon because of the protest of bankers of those states, who assert that the sale of the Government certificates takes money out of their territory."

It would seem to the writer as though this is going rather far, both on the part of the bankers of those states and Secretary Mellon, who at the request of these bankers has deprived thousands of people with limited means from this form of investment. And for what reason? To force into circulation, or rather into the banks if possible, the money these people were investing in certificates.

It is conceded that the sale of the certificates has produced a saving and thrift spirit in thousands of people of our land, and that it has been one of the greatest educational agencies not only with children but with many grown people, who today have saved by this means money they otherwise would not have.

The writer wishes to ask if this was a wise, a just thing to do, and if it is not a move that will cause many people to think there is something wrong with the banks and their system of operation. Speaking for this section of the country, I can say it is looked upon with suspicion, and as being unjust. The question is being asked, "What would be the result if the request was made by thousands of the people, and the few hundred bankers opposed the project?" Why is it necessary and it must be necessary otherwise it would not be made? The bankers and even Secretary Mellon admit it for it has been done, and they surely would not like to be put in the attitude of saying they had done or caused to be done something that was not necessary.

A few more moves to take privileges like this from the people at large, and just a little more mismanagement as shown in 1920 and the people are going to correct the system that makes such things possible.

Duval County to Build \$200,000 Hospital.

Plans are being prepared by H. J. Klutho of Jacksonville, Fla., for a \$200,000 hospital building to be erected by Duval County in that city. The building will be of brick, concrete and hollow tile, two and three stories, with concrete foundations, composition shingle roof and marbleoid and cement floors.

In a letter to the MANUFACTURERS RECORD Mr. Klutho refers to the building as follows: "This is an addition to a hospital built two years ago solely for tuberculosis patients. By adding to it county hospital units, the Board of Charities expects to make this a combination building where all charity patients of the county, tubercular and others, will be taken care of.

"The plans will be rather unique, inasmuch as the tubercular patients, white and colored, will have to be separated from each other as well as separated from the general patients. The male and female of each will also be kept separate. This plan is interesting because it has probably never been attempted before."

Meeting of Florida Lumber and Millwork Association.

Orlando, Fla., March 31—[Special.]—The regular annual meeting of the Florida Lumber and Millwork Association, with headquarters in this city, will be held at the Angebilt Hotel here, on May 8 and 9. J. P. Williams is secretary and treasurer of the association.

Sub-contracts for \$850,000 Professional Building.

Oklahoma City, Okla.—Reinhart & Donovan, general contractors for the erection of the proposed \$850,000 building to be erected here for the Physicians' and Dentists' Building Co., have awarded sub-contracts as follows: For reinforcing steel and removable steel forms, Midwest Steel Co.; ornamental iron and bronze and hollow metal doors, J. B. Klein Foundry Co.; heating and plumbing, Cook & McDonnell Co.; electric wiring and builders' hardware, McEldowney & Son; metal windows, Bissell Builders' Supply Co.; glass and glazing, United Plate & Window Glass Co.; cut stone, O. K. Cut Stone Works; excavating machinery, Wylie Bros.; marble, tile and terrazzo, Taylor Marble & Tile Co.; lumber, Greever-Roberts Lumber Co., and liability insurance, T. E. Braniff & Co., all of Oklahoma City.

Contracts were also awarded to the Oklahoma City office of the Truscon Steel Co., of Youngstown, Ohio, for metal lath; American Sash & Door Co., Kansas City, Mo., for sash and doors and to the Woodbury Granite Co., Hardwick, Vt., for polished granite. The Cook & McDonnell Co. let sub-contract to Tom Dolan Heating Co., Oklahoma City, for heating ducts. Contract was awarded to the Oklahoma City office of the Otis Elevator Co., New York, for elevators.

The building will be 12 stories, 75 by 140 feet, of reinforced concrete and Bedford stone construction. Layton, Smith & Forsyth of Oklahoma City, are the architects.

\$1,000,000 for Improvement of Public Utilities.

Miami Beach Fla.—Improvements to cost \$1,000,000 will probably be made to facilities here of the electric light and power and street railway systems, which have recently been acquired by S. R. Inch and the American Power & Light Co., of New York, according to a statement of C. E. Groesbeck, president of the company. Two ordinances are now being considered by the city council granting additional franchise rights to the company, and if favorable action is taken, it is understood that the improvements will soon begin.

The present capacity of the power plant is 4000 kilowatts. It is intended to install a 5000 kilowatt steam turbine which will be able to carry a capacity four times that of the present load. Improvements are also planned for the street railway system, and with this purpose in view, A. B. Patterson, of New Orleans, has made a survey of the Miami Beach properties. Improvements outlined are expected to be completed by January 1, 1925.

Increase in West Virginia's Coal and Coke Production.

Charleston, W. Va., March 28—[Special.]—Coal and coke produced in West Virginia during the fiscal year ended June 30, 1923, according to a preliminary report of the West Virginia Department of Mines, had a value of \$282,642,609. There were produced a total of 87,031,408 gross tons of coal with a value of \$276,759,877, the total coke output being 823,912 net tons valued at \$5,882,731. There was an increase of 16,143,205 gross tons of coal over the preceding fiscal year, the increase in the production of coke amounting to 648,756 net tons.

McDowell county leads all others in coal production with 14,195,510 tons, Logan county ranking second with 10,769,022 tons.

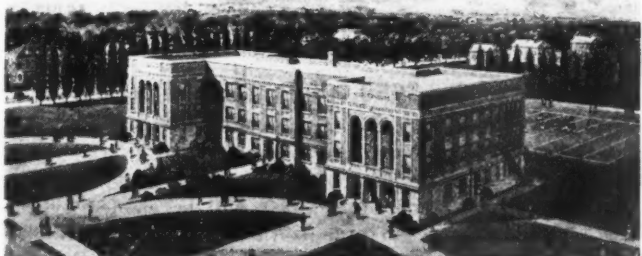
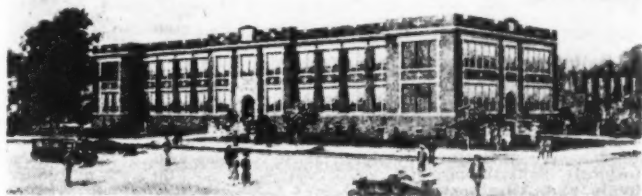
Bids for \$300,000 Hospital Building.

New Orleans, La.—Bids will be received until April 19 by the Board of Administrators of Charity Hospital here, F. W. Evans, vice-president, for the erection of a four-story building to cost about \$300,000. The structure will be fire-proof, 60 by 120 feet, of reinforced concrete. Plans and specifications may be secured from the office of Favrot & Livaudais, Ltd., architects.

Three Modern North Carolina Schools.

As typical of present-day school construction in the state, an accompanying illustration presents views of three of the modern school buildings being erected at Lumberton, Concord and Hickory, North Carolina. Each of these buildings is of slow-burning, fireproof construction, with steel frames; they were designed by C. Gadsden Sayre of Anderson, S. C., Raleigh and Greensboro, N. C.

The Lumberton building is nearing completion at a cost of about \$125,000. It contains 14 class rooms, gymnasium, auditorium and other facilities and is equipped with a split



NORTH CAROLINA SCHOOL BUILDINGS OF THE NEW AND BETTER KIND.

system of steam heating and ventilating. J. W. Stout & Co. of Sanford, N. C., is general contractor, and G. B. Kirkman of Lumberton, plumbing contractor.

The Concord building also is nearing completion and will possess all modern high school facilities. It is of Kingsport rough texture brick with terra cotta trim. There are six laboratory rooms on the first floor for biology, physics, general science and home economics department, together with cafeteria, gymnasium, toilet rooms, showers and lockers. On the second floor there are six class rooms, auditorium and offices, and on the third floor, library reading room and six class rooms. The following are contractors: John Query, general contractor, and Concord Plumbing Co., plumbing, both Concord; Dermott Heating Co., Durham, N. C., split system of heating and ventilating; Johnson Co., New York, system of heat control; W. Drummond Marrow Co., Newport News, Va., electrical equipment; E. H. Sheldon & Co., Muskegon, Mich., science equipment; Southern School Supply Co., Raleigh, N. C., opera chairs, and General Seating Co., Charlotte, desks.

General contract has recently been awarded to Jewell, Riddle & Co., Sanford, for the erection of the Claremont high school at Hickory, which will cost about \$225,000. The building will be three stories, 240 by 114 feet, of brick, concrete, tile and terra cotta, with composition roof and flooring.

Contract for a warm air system of heating and ventilating has been awarded to the American Heating & Ventilating Co. of Raleigh, and to the James C. Shuford Co. of Hickory for plumbing.

\$400,000 Apartment Building for Little Rock.

Little Rock, Ark.—Plans have been announced here for the erection of a \$400,000 apartment building in this city. The structure will be erected by Memphis interests which have organized the Rackensack Apartment Corporation, of which Charles M. Bryan is president. It will be seven stories, of reinforced concrete, brick exterior trimmed with terra cotta. The site measures 125 by 150 feet. There will be a total of 52 apartments of two and three rooms each, but arranged under the "efficiency" plans to provide accommodations of the average four and five-room apartments.

Wittenberg, Delony & Watts of Little Rock, are the architects, and it is stated that the project will be financed by the Fidelity Bond & Mortgage Co. of St. Louis, which has underwritten a first bond issue of \$200,000.

Contract for \$300,000 Church Building at Tulsa.

Tulsa, Okla.—Contract has been awarded to J. W. Van Horn of this city by the building committee of the First Presbyterian Church here, Edward Watters, secretary, for the erection of its proposed building at a cost of more than \$300,000. The building will be fireproof, 95 by 140 feet, brick and stone, with concrete foundation and slate and gravel roof. Hawk & Parr of Oklahoma City are the architects.

The following are chairmen of various committees handling different phases of the work: E. P. Harwell, furnishings and decorations; C. E. Buchner, lighting and lighting fixtures; W. F. Stahl, organ, and J. M. Chandler, heating and ventilation.

To Build \$2,000,000 Store Addition.

Washington, D. C.—Soon to begin construction of a \$2,000,000 addition to its store here, the Hecht Company plans to have the building ready for occupancy by June, 1925. The structure will front 125 feet on Seventh street and 155 feet on F street, rising to a height of seven stories. It will be of concrete, with glazed white terra cotta front having lower columns of granite. Five passenger and two service elevators will be installed.

Atlanta to Vote on Bonds Totaling \$900,000.

Atlanta, Ga.—A number of ordinances are being considered by the city commission of Atlanta providing for an election on bond issues aggregating \$900,000. Each ordinance specifies May 31 as the date of election, the largest item being for \$450,000 for schools. Other improvements covered by the ordinances, include \$240,000 for sewers, \$60,000 for fire stations, \$45,000 for paving and \$105,000 for parks and playgrounds.

Plan 715 Miles of Pipe Line in Texas Oil Fields.

Fort Worth, Tex., March 29—[Special.]—The McCorkle Pipe Line Co., with offices in the Burk Burnett Building, this city, contemplates the construction of approximately 715 miles of pipe line through the oil fields of Texas, work to start about the first of May. No contracts have been awarded as yet, nor has the company placed any orders for the purchase of any equipment or material.

A transmission line extension from Warsaw to Kenansville, North Carolina, is being constructed by the Tide Water Power Co. of Wilmington, N. C. Completion is expected by April 15.

UNPRECEDENTED BUILDING AND INDUSTRIAL ACTIVITY SOUTH.

Construction Items Published for Three Months Highest Yet Recorded.

Construction activity in the sixteen Southern states for the first quarter of 1924, as represented by the number of items published in the Daily Bulletin and in the construction columns of the MANUFACTURERS RECORD, surpassed all previous records for a similar period. This year, in three months, 16,043 items were published compared with 14,462 notices in the corresponding period of 1923.

The items cover every phase of industrial development, bridge and highway construction, the erection of houses, schools, churches, hotels, office buildings and business structures, as well as the announcement of new financial corporations and the voting of new securities by municipalities, districts, counties and states. They thus serve as an accurate barometer of Southern prosperity and progress, and indicate definitely that this section is going forward in industry, in agriculture, in commerce and finance at a pace not surpassed by any other section of the country.

The varied scope of these developmental activities is clearly shown by the summary herewith. The brief reports include 1890 road and street construction items, this classification holding first place. Notices concerning miscellaneous enterprises, rank second with a total of 1433 items, covering a wide field of activities not included in the other specific classifications.

Construction of dwellings is represented by 981 items, but the remarkable era of house building is only faintly indicated by the publication of these announcements, which cover only individual projects involving the expenditure of \$10,000 each and over. Thousands of dwellings costing from \$1500 each and up to \$10,000 are under way in every section of the South, but lack of space compels the omission of all such projects costing under \$10,000. From practically every town and city come reports of unprecedented activity in home building, and indications are that the demand for residential structures to fill the gap caused by retarded construction has not yet been satisfied, and in addition to this unusual shortage thousands of dwellings must be erected to meet the normal needs of the increased population.

School building construction continues in volume, as indicated by the publication of 914 items in the period from January 1 to March 27. Church buildings are going up and being planned in ever increasing numbers, evidenced by the publication of 565 notices concerning such projects.

Bonds are being voted by municipalities, districts, cities, counties and states to carry forward public work on a scale sufficient to keep pace with the expansion in industry and building. And in the three months just ended 1043 new securities announcements appeared. New financial corporations reported in the same period required the publication of 368 items.

A study of the activities suggested by these items reveals sustained activity in practically every line of endeavor, with good prospects for a continuation at about the present level for some months.

	Totals for Mar.	Totals for Jan.-Mar. (Inc.)
Industrial Developments		
Bridges, Culverts, Viaducts.....	202	636
Canning Plants	12	36
Clayworking Plants	11	33
Coal Mines and Coke Ovens.....	25	81
Concrete and Cement Plants.....	21	37
Cotton Compresses and Gins.....	27	57
Cottonseed Oil	2	11
Drainage and Irrigation.....	12	36
Electric Light and Power Plants.....	102	277
Fertilizer Plants	1	13
Flour, Feed and Meal Mills.....	10	44
Foundry and Machine Plants.....	29	64

	Totals for Mar.	Totals for Jan.-Mar. (Inc.)
Gas and Oil Developments.....	81	256
Ice and Cold Storage.....	30	100
Iron and Steel Plants.....	4	12
Land Developments	208	612
Lumber Enterprises	64	176
Metal-Working Plants	8	20
Mining	22	78
Miscellaneous Construction	50	153
Miscellaneous Enterprises	432	1433
Motor Cars, Garages, Tires, etc.....	137	466
Railways and Street Railways.....	10	21
Railway Shops, Terminals, Roundhouses, etc..	7	22
Road and Street Construction.....	768	1890
Sewer Construction	97	260
Shipbuilding Plants	0	1
Telephone Systems	17	57
Textile Mills	34	106
Water-works	102	317
Woodworking	35	115
	2560	7420
Building		
Association and Fraternal.....	67	179
Bank and Office.....	89	236
Churches	207	565
City and County.....	87	263
Dwellings	411	981
Government and State.....	16	49
Hospitals, Sanitariums, etc.....	60	138
Hotels and Apartments.....	222	516
Miscellaneous	69	219
Railway Stations, Sheds, etc.....	13	49
Schools	323	914
Stores	169	461
Theaters	18	53
Warehouses	32	99
	1783	4722
Financial		
Corporations	132	368
New Securities	346	1043
	478	1411
Machinery Proposals and Supplies Wanted	659	1923
TOTAL	5480	15,476
Fire Damage	163	567
	5643	16,043

Contract for \$650,000 Building at Joplin.

Joplin, Mo.—Contract for an eight-story reinforced concrete office building here, has been awarded to the C. A. Dieter Construction Co. of Joplin. The structure, which will represent an investment of \$650,000, will be erected by the Liberty Building Co., an organization promoted by Hadley Tatum of the Brown-Tatum-Shannon, Inc. of this city, assisted by I. T. Cook & Co., Inc., of St. Louis. The company has been aided in financing the building by a bond issue placed by the First National Co. of St. Louis.

Fronting 75 feet on Main street, with a depth of 110 feet on Fourth street, the building will have a stone base and exterior walls finished in terra cotta up to the second floor. The walls will be of matt-face brick, while the top floor will be finished in terra cotta with copper capping. An entrance on Main street will lead to an elevator lobby with marble walls and tile floors. All corridors will have tile floors, and the walls resting on a marble base. Two passenger elevators will be installed. A. Monschein of St. Louis is the architect.

Correction.

In a letter from Oklahoma City published in the MANUFACTURERS RECORD of February 21 and describing improvements at a local power plant, the following statement was made in error: "The substation will be enclosed with a Cyclone fence furnished by the Page Steel and Wire Company of Chicago, Ill."

Mr. R. F. Danner, Assistant to General Superintendent of the Oklahoma Gas and Electric Company writes the MANUFACTURERS RECORD that his statement should have been: "The substation will be enclosed with a woven wire fence furnished by the Page Steel and Wire Company of Chicago."

THE IRON AND STEEL SITUATION

Volume of Steel Business Large Despite Decreased Buying.

Pittsburgh, Pa., March 31—[Special.]—Buying of steel has decreased farther in the past week. In fact, there has been an almost continuous decrease in the turnover since early in February, except for the fluctuations made by the placing of large tonnages in particular weeks, against freight car orders and fabricated steel jobs.

With all the decrease that has occurred the volume of steel business being done at present is very large, the tonnage perhaps running above the average of production in the two biggest tonnage years before the war, 1912 and 1913. The buying also falls short of the current production, but that is because the current production is abnormally large, there being quite an excess of steel producing capacity over steel consuming capacity. The latter has increased since 1914, when the war started, but the productive capacity has increased more than 50 per cent in that time.

Illustrative of the fact that much steel business is being done, fabricated steel contracts reported in the past week totaled 47,000 tons, while new business came up for prices to the extent of 60,000 tons. As fabricating shop capacity is estimated at 60,000 tons a week these are fairly large figures. Fabricated steel business placed in the past five months makes a larger total than in the same period a year ago.

Again, the Great Northern has bought 25,000 tons of rails and the Northern Pacific 10,000 tons, while the Southern Pacific is just out with an inquiry for 130,000 tons. This rail business, as well as rail orders placed in the past few weeks, is for second half delivery, since early in the year the rail mills were already sold up for the first half. Yet in many finished steel products jobbers and manufacturing consumers are buying only from hand to mouth, placing orders that they expected to be shipped in a week or two or possibly three or four weeks at the outside. Sometimes there is complaint or criticism about the steel market, that buyers are "conservative" and "are not buying ahead." The existing condition is, however, perfectly natural. Things that need to be bought ahead are bought ahead. The rail mills are already filled up for months to come, and fabricated steel jobs, while involving some steel that will not be rolled until several months hence, have to be placed in advance. Other commodities can be secured from mills whenever buyers need them, so the buyers wait until they do.

Steel mill operations rounded the turn recently and are now declining, the decrease in production up to date being only a very few per cent. The rate of steel ingot production increased by almost 40 per cent from December to the fore part of March, and to a rate approximating the peak rate reached in all time, that of April, 1923. Buyers have probably been receiving deliveries at a greater rate than they expected, when they bought so freely late in December and during January. The recent rate was obviously too high for continuance, and a gradual tapering off like that which occurred last year, after April, is to be expected.

Steel prices are losing ground somewhat more definitely than formerly, when there was merely a little slipping here and there. Some products remain very firm, at prices of last April, but the number is diminished, the list hardly including anything more than rails, tin plate and pipe. Merchant bars are rather firm at \$2.40, the old price, but there is some shading in the East. The most interesting development in the price situation is that leading mills now recognize \$2.40 as a regular market price on shapes and plates. The difference

is chiefly one of viewpoint, the market not really being decidedly lower than a week or two ago. Formerly a price of \$2.40 was regarded as a cut price, the old price having been \$2.50. Now \$2.35 or \$2.30 are cut prices, but they were made in some cases long ago, particularly on freight car material.

In sheets the great bulk of the sales by independents is at \$2 a ton off the regular prices, yet the American Sheet & Tin Plate Company (Steel Corporation) continues to book a satisfactory business while maintaining the full prices.

Among the finished steel products, the poorest demand is said to be for wire products, and this showing is attributed to very poor buying by farmers in fence wire, barb wire and fabricated wire fence. Demand for wire in the industries, and for nails from manufacturers and from jobbers for building operations is regarded as satisfactory.

The best demand among finished steel products is of course for rails, next comes tubular goods. There has been a decrease in buying of merchant pipe by jobbers, who have so fully replenished their stocks, but there is increased demand for tubing, casing, and other oil country goods.

Connellsville furnace coke is offered at \$4.00 both for spot shipment and on second quarter contracts, without finding takers. Some time ago the market was firm at \$4.25 on both positions.

Pig iron continues stagnant, and prices recently quoted as the market are purely nominal, \$23 for Bessemer, \$22 for basic and \$23 for foundry, f. o. b. valley furnaces.

For several months it has been the expectation that Lake Superior ore prices for the 1924 season would be down 50 cents, making Missabe non-Bessemer \$5.05, f. o. b. Lake Erie docks. While some furnaces are seeking reductions of 75 cents or \$1 it is probable the market will open shortly at the 50-cent reduction.

Steady Production of Pig Iron at Birmingham.

Birmingham, Ala., March 31—[Special.]—Southern furnace interests will ship pig iron steadily through the next 90 days at least, with no reduction in the make. The second quarter of the year is being entered with many sales made. Much of the probable make remains to be offered. Inquiries are being received which indicate that some of the steady melters of iron will have to come into the market and buy. Those consumers who have been seeking concessions may get what they want and place business for a considerable tonnage. Three blast furnaces are ready for the torch but there will be no additional furnaces started up until the demand warrants it. The Woodward Iron Company with four out of five blast furnaces in operation has not been piling any iron. Sales have been made recently in small lots on a \$23 per ton base, No. 2 foundry. For three months at least there will be need for the same output as noted now.

The Alabama Company is beginning to feel a little improvement in its business. The one blast furnace in operation for the time being, however, will be able to care for the demand, but a second iron-maker can be started up within a week. The Sloss-Sheffield Steel & Iron Company continues reducing its surplus iron on yards and with four furnaces out of eight in operation is able to care for the demand. This company had a large amount of iron on the yards six months ago but is in a comfortable position now. The Republic Iron & Steel Company with two blast furnaces making iron has been selling as high as \$23.50 per ton, No. 2 foundry. The Central Coal & Iron Company with one blast furnace has also been selling a little iron at the high price. The Tennessee Coal, Iron & Railroad Company has two blast furnaces on foundry iron, one on ferro-manganese and eight on basic.

The Gulf States Steel Co. is making basic at its furnace.

The surplus stock on furnace yards in Alabama is down to the lowest mark in several months and indications are that there will be continued reduction for some time to come, surely through the second quarter of the year.

The melt of pig iron in the Southern territory shows a steady increase. Not only is there better melt at plants already established in this section but there are new comers right along. The soil pipe shops are more numerous and additions are being made to some of those here already. Contractors are at work on material enlargement of the soil pipe plant of the Central Iron & Coal Company at Holt, in Tuscaloosa county, (Iron Products Corp.) The Birmingham Machine & Foundry Company is adding to its pipe shops.

New business is being received by the pressure pipe shops every week. The make of water and gas pipe in this district will be increased when new methods worked out by W. D. Moore, the new president of the American Cast Iron Pipe Company have been put into commercial use. The first announcement of new methods in centrifugal pipe making has aroused much interest in the industrial world. The details of the new method will be given the public later on. The pressure pipe plants of Alabama are being operated almost to capacity and the shipments are practically equal to the output.

The co-operation of the transportation companies of this district makes it possible for prompt delivery of pig iron, steel and the various products produced with iron and steel. Some delay is yet reported on small size pressure pipe because of the big business booked in the past but delivery problems are not as difficult as might have been noted if substantial orders had not been placed during the winter. The pressure pipe makers in this state anticipate a very active spring trade.

The coal production in Alabama is not as good as it has been, the weekly average being down to 330,000 tons. There is confidence, however, that the year's business is going to be fairly good. Chief State Mine Inspector, C. H. Nesbitt, will in the next few days complete his figures on the 1923 coal production in Alabama. Already the totals in hand show a larger output by 300,000 tons than in 1917 when the peak was reached, more than 20,450,000 tons being reported that year. Announcement is made that actual development by the Deepwater Coal and Iron Company, the organization perfected by L. B. Musgrove, of Jasper, with \$15,000,000 capitalization, will be under way in the near future. Engineers are now in the field, and preparation for starting mines and other work are being made. The Tennessee Coal, Iron & Railroad Company is adding to appurtenances at the Edgewater mines where 1,000,000 tons and more have been mined each year for the past two years.

The coke market shows a little improvement, the quotations holding the hardening and the demand is growing each week, the small-lot buying totaling nicely. The coke prices range from \$5.50 to \$6.50 per ton.

A little better demand for scrap iron and steel is noted, that is, some shapes, stove plate and No. 1 cast in particular.

Quotations for pig iron and iron and steel scrap follow:

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$22.50 to \$23.50; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$23.00 to \$24.00; iron of, 2.75 to 3.25 per cent silicon, \$23.50 to \$24.50; iron of, 3.25 to 3.75 per cent silicon, \$24.00 to \$25.00; iron of, 3.75 to 4.25 per cent silicon, \$24.50 to \$25.50; charcoal iron, f. o. b. furnaces, \$32.00 to \$33.00.

OLD MATERIAL.

Old steel axles	\$19.00 to \$20.00
Old iron axles	21.00 to 21.50
Old steel rails	12.00 to 13.00
Heavy melting steel.....	14.00 to 14.50
No. 1 cast.....	20.00 to 20.50
Stove plate	15.50 to 16.50
No. 1 R. R. wrought.....	12.00 to 13.00
Old car wheels	16.00 to 18.00
Old tramcar wheels	17.00 to 18.00
Machine shop turnings.....	7.00 to 9.00
Cast iron borings	9.00 to 10.00
Cast iron borings (Chem)	15.00 to 16.00

RAILROADS

New Interurban Railway and Power Plan.

Construction of an interurban railway from Austin to San Antonio, Tex., via Lockhart and Seguin, about 85 miles, is proposed by the Texas Rapid Transit Company, according to a report from San Antonio quoting E. G. Potter, consulting engineer, of that place. Plans have been completed and incorporation papers have been filed at Austin, the state capital. Officers of the company are given as W. B. Dunlap, of Beaumont, Tex., president; E. G. Potter, of San Antonio, Tex., vice-president; J. M. Abbott, of Seguin, secretary and treasurer.

It is further stated that the new company has taken over all the rights and property of the old Seguin & Guadalupe Valley Railroad in which Mr. Dunlap and others were interested just before the World War started and interfered with their plans when some grading had been done. Pre-emption proceedings have been instituted to secure several sites for dams on the Guadalupe River with the idea of building hydro-electric plants to supply power for operating the railway as well as for supplying light and power to towns along the route and at points adjacent thereto. As the route is through an oil country much business is expected. It is estimated that 500,000 population will be served.

Branch lines are to be run to Luling, San Marcos, New Braunfels, Gonzales, Cuero and Yoakum, but the first line will be constructed from San Antonio to Seguin and the rest of the plan is to be fulfilled as soon thereafter as possible.

Georgia & Florida Railway Will Build North.

Construction of the proposed extension of the Georgia & Florida Railway northward from Augusta, Ga., to Edgefield and Greenwood, S. C., at which latter point connection will be made with the Seaboard Air Line Railway, is expected to begin in several weeks. The survey is now being completed to Greenwood and the route has been inspected by a party of financiers who, it is stated, will be interested in the property, including, R. Lancaster Williams & Co., of Baltimore; Charles E. Doyle & Co., and Buell & Co., both of New York City. Accompanying them were H. W. Purvis, general manager, and James U. Jackson, special representative of the railroad. John Skelton Williams, of Richmond, Va., is receiver.

The main line of the Georgia & Florida Railway is 250 miles long from Augusta, Ga., to Madison, Fla., but it has a total mileage of 405 miles, as there are several branches, viz., one to Tennille, Ga.; another to Vidalia, Ga.; a third to Moultrie, Ga.; and a fourth a Relee, Ga. Connection is made at Madison with the Seaboard Air Line, so that after the extension to Greenwood is built the road will connect with that system at each end. The extension will be 55 miles long, and will traverse a farming country susceptible of development. It is expected to cost about \$2,000,000.

A Splendid Record for Safety.

The Southern Railway Company reports that of the 18,310,013 passengers carried on its trains during 1923 not one was killed in a train accident or because of any fault on the part of the road organization, this duplicating the record of 1922. There were, however, two passengers killed by falling from moving trains after violating the safety rules of the company. The number of passengers increased more than 641,000 as compared with the previous year and the average distance traveled by each passenger was 68.5 miles, an increase of 6.33 miles as compared with 1922. The total of passenger trains run was 177,712, an increase of 628.

New Equipment.

Pennsylvania Railroad Company has ordered 50 all-steel sleeping cars of an improved type, having numerous innovations in their interior arrangements, to be built by the Pullman Company. To accommodate the increasing number of women travelers greatly enlarged dressing rooms are provided, each with a full length vanity table, big enough for four chairs, a mirror of extra size and three washstands. There are mirrors and non-sagging hammocks in the upper berths and ventilators with dust excluding devices in all windows. Fixed headboards separate the sections, giving greater privacy in daytime.

Chesapeake & Ohio Railway has ordered 2 scale test cars to cost \$10,000 each from the Southwark Foundry & Machine Co. This system is also in the market for the following: 3000 hopper bottom gondola cars of 57½ tons capacity, 2000 automobile cars of 40 tons capacity, 600 Rodger ballast cars of 57½ tons capacity, 15 all steel express cars and 4 all steel dining cars. It is also reported that the company contemplates buying 50 locomotives.

Louisville & Nashville Railroad is reported to have ordered 30 locomotives from the American Locomotive Co. as follows: 18 Mikado type, 6 Pacific type and 6 eight wheel switching locomotives.

Wilmington, Brunswick & Southern Railway has bought an oil burning passenger locomotive of 50 tons weight from the Baldwin Locomotive Works.

New Orleans Public Service, Incorporated, will, it is reported, purchase 55 street railway cars.

• El Paso & Southwestern Railway is reported in the market for 6 Mountain type locomotives.

Seaboard Air Line has ordered 25 and the Richmond, Fredericksburg & Potomac Railway 15 ballast cars from the Rodger Ballast Car Co.

Santa Fe System has ordered 6 business cars from the Pullman Company. This road is also reported inquiring for 10 more mail cars.

Chesapeake & Ohio Buys Two Coal Lines.

The Chesapeake & Ohio Railway Co. has purchased from the Baltimore & Ohio Railroad Co. two detached pieces of line in Kentucky that the Baltimore & Ohio built several years ago for the development of coal properties, the freight of which it handled after its transportation over the Chesapeake & Ohio Railway's Big Sandy division to the B. & O. main line. One of these branches is the Long Fork Railway

running from Martin to Weeksbury and East Weeksbury, Ky., 25 miles, and the other is the Millers Creek line running from Van Lear Junction to Mine 155, about 4 miles. The Chesapeake & Ohio has been operating these roads for several months; previously they were operated by the Baltimore & Ohio.

BIG PASSENGER ENGINES BUILT SOUTH.

Twenty-Two Locomotives of This Class Haul Fast Express Trains to and From Florida.

The 1679, one of ten Mountain type locomotives built at Richmond, Va., by the American Locomotive Company for the Central of Georgia Railway is shown in the accompanying picture with approximately 250 employes of the Macon, Ga., railroad shop grouped upon and around it. C. L. Dickert, superintendent of motive power of the railway, says: "These engines handle our very heaviest through passenger trains with quickness and dispatch on a very fast schedule over maximum grades of 1¼ per cent. One of these trains, known as the Seminole Limited, which runs from Chicago to Jacksonville, is handled over our line from Birmingham, Ala., to Albany, Ga., and is composed of from thirteen to fourteen all steel cars weighing over 1000 tons. We have a total of twenty-two engines of this type in service."

Four pairs of driving wheels, two pairs of truck wheels forward, and one pair of trail wheels at the rear of the engine, distinguish a Mountain type locomotive from others. The tractive power of the 1679 and each of its fellows built at Richmond in December last, is 47,800 pounds, a high figure for a passenger engine. Cylinders are 27 inches in diameter with 28 inches stroke. Driving wheels are 69 inches in diameter, and the weight on them is 214,500 pounds, the weight of the whole engine being 326,500 pounds. Heating surface is 3714 square feet and the heating surface of the superheater is 900 square feet. Steam pressure is 190 pounds. Water capacity of tender, 9500 gallons; coal capacity of tender 15 tons. Rigid wheel base is 18 feet. Wheel base of engine is 38 feet 11 inches and, including tender, is 73 feet, 9½ inches. Length of engine and tender over all is 86 feet 8¾ inches.

Specialties included in the equipment of these locomotives are as follows: Schmidt superheater, Elesco feed water heater, New York air brakes, Pyle-National K-2 headlight, Alco power reverse gear, Vapor Company's steam heat system, Walschaerts valve gear, Commonwealth frame cradle, Commonwealth tender trucks, and Nicholson thermic syphons.



RICHMOND BUILT LOCOMOTIVE WITH RAILROAD SHOP EMPLOYEES GROUPED ABOUT IT, AT MACON, GA.

Over \$4,600,000 for Two Bridges.

Another expensive bridge of steel and concrete will be built by the Louisville & Nashville Railroad, this one 19 miles east of New Orleans at Chef Menteur, the estimated cost of the structure being about \$1,500,000. W. H. Courtenay, chief engineer of the railroad, wires the MANUFACTURERS RECORD that the bridge will have two through truss fixed spans each 270 feet long and one draw span 279 feet long, all supported on concrete piers each 130 feet high from foundation to top.

Like the new bridge now being completed at Rigolets, about 10 miles farther east, this projected structure will be eight feet higher than the old bridge which it will replace so as to be above the reach of high water in the event of hurricane storms. The railroad line on which these bridges will give valuable service runs along the peninsula that separates Lake Borgne and Lake Ponchartrain, and is consequently in an exposed location. The Rigolets bridge will cost about \$3,140,000.

Railroad Statements Show Improvement.

Seaboard Air Line Railway for February reports total operating revenues, of \$4,826,860; increase as compared with the same month of last year, \$284,384; net revenue, \$1,243,197; increase, \$215,201; net railway operating income, \$941,507; increase, \$384,006, balance after interest and other fixed charges exclusive of interest on adjustment bonds, \$403,199; increase, \$344,429.

The statement of the Baltimore & Ohio Railroad for February shows railway operating revenues of \$18,497,990, a decrease of \$194,403 as compared with the same month of last year; net revenue from railway operations, \$3,165,926; decrease, \$591,429, there having been an increase of about \$397,000 in expenses; net railway operating income, \$2,021,100; decrease, \$501,058. This shows improvement over January when the net operating income was \$3,495,561, a decrease of \$2,636,091 as compared with January a year ago.

"Orient" Railway Bought In at Receiver's Sale.

At the receivership sale of the Kansas City, Mexico & Orient Railway on March 27 at Wichita, Kans., the property was bid in by Clifford Histed, general attorney of the line, for \$3,000,000. P. D. Tuckett, representative of English interests in the road, and W. T. Kemper, the receiver, were present but did not bid, and it is further stated that it is understood they and Mr. Histed are associated in a plan to reorganize the company and put the road on a satisfactory basis. One other bid was made by E. E. Mullaney, of Hill City, Kans., who is a director in the Federal Reserve Bank of Kansas City; it was for \$2,764,000. The road has 737 miles of line in this country and about 350 miles in Mexico. About 500 miles would have to be built to complete it to Topolobampo on the west coast of Mexico, 1600 miles from Kansas City.

Inland Transit Company Organized.

The Inland Transit Company is reported organized at Leesburg, Fla., for the transportation of passengers, mails, freight, etc., between various ports on inland waters and on the coast. The city, it is stated will furnish land for warehouses, besides building docks and a turning basin. The incorporators are Frank J. Peterson, president; J. H. Williams, vice-president; A. H. Bourlay, second vice-president; H. L. Wiley, secretary, and W. A. MacKenzie, treasurer. Principal offices will be at Leesburg. The capital stock of the company is \$75,000, of which \$50,000 will be disposed of immediately, the rest to be issued as business demands. It is further asserted that sufficient tonnage has already been pledged to insure success. Boats have been purchased and it is expected to begin operations on May 1.

More and More Travel to Florida.

The Atlantic Coast Line Railroad, according to a statement published in New York, will devote its efforts principally to the development and conduct of its through passenger traffic which is steadily increasing. Recently it has added new trains to its New York and Florida service and it will continue to operate its winter season trains until further notice, instead of taking them off early in April.

It is also proposed by this road, according to the same announcement, to cut off many of its local passenger trains because short haul business has been greatly cut into by the success of motor busses in territory adjacent to various parts of the system. In several instances, it is asserted, the busses have been able to offer better service than the railroad with the consequence that travel by trains in such sections has greatly declined in volume.

Success of Three-Cylinder Locomotive.

In the recently published annual report of the American Locomotive Company, as noted by the MANUFACTURERS RECORD at the time of its issue, the company during 1923 experimented with much success with a three cylinder type of locomotive and now the Lehigh Valley Railroad reports that it has put one of these engines in service, which has given very satisfactory results, handling a fast-schedule milk train which ordinarily requires two large Pacific type two cylinder engines to haul it on time. It is stated that the three cylinder engine handled the train without difficulty or delay and, furthermore, that this engine—which is No. 5000 of the Lehigh Valley's equipment—also handled a train of 4500 tons weight over a division 95 miles long in less time than one of the Pacific type handles a 3000 ton train.

Record Breaking Freight Movement.

The American Railway Association reports for the week ended March 15 total loadings of revenue freight of 916,953 cars, the largest number for any corresponding week, or an increase of 12,837 cars as compared with the same week last year. It was over 101,000 cars in excess of the corresponding week in 1922 and over 61,000 more than in the same week of 1920. As compared with the immediately preceding week it showed a decrease of more than 12,500 cars. Since January 1 over 9,700,000 cars have been loaded, a high record total.

"Ferry Car" for Export Package Shipments.

The Baltimore & Ohio Railroad has adopted a new plan for handling less than carload lots of freight destined for export. At Cleveland, Ohio, where the plan has first made its appearance, a "ferry car," as it is called, it set on a convenient track at the terminal and is loaded throughout the week with packages to be exported through the port of Baltimore. Then each Monday the car is sent to Baltimore with its burden, which is transferred to steamers at the Locust Point terminals.

Receiver for Muscle Shoals Line.

W. B. Harbeson, Pensacola, Fla., has been appointed receiver of the Muscle Shoals, Birmingham & Pensacola Railway, under an order of the District Court of the United States for the Northern District of Florida, according to an announcement from the offices of road in Pensacola.

Railroad Financing.

Norfolk & Western Railway has been authorized to issue \$12,000,000 of equipment trust certificates to provide for its purchases of new rolling stock.

Central of Georgia Railway has been authorized to issue \$5,000,000 of refunding and general mortgage bonds.

GOOD ROADS AND STREETS

Missouri Opens Bids for 75 Miles to Cost Nearly \$800,000—Bridges Total Over \$100,000.

Jefferson City, Mo.—Low bids recently received by the State Highway Department for the construction of about 75 miles of roads in a number of counties, total nearly \$800,000. The various projects, with the lowest bid on each, are as follows: For 3.771 miles of earth grade in Scott County, the Energy Coal & Supply Co. of Poplar Bluff, Mo., at \$34,202; 2.67 miles of gravel in Lincoln County, Harlan Bros., Troy, Mo., \$14,401; 2.062 miles of gravel in Sullivan County, L. Simmons, La Plata, Mo., \$8000.

For .720 miles of graded earth in Saline County, the Pittsburgh-Des Moines Steel Co. of Des Moines, Iowa, is lowest bidder at \$17,844; 3.8 miles of graded earth in Montgomery County, F. A. Stoner, Chamois, Mo., \$15,827; 4.89 miles of concrete in Nodaway County, C. H. Atkinson Paving Co., Watertown, S. Dak., at \$78,492, and for earth work on the same project, James Stanton, Leavenworth, is lowest bidder at \$31,947; for 1.970 miles of earth work in Greene County, Hodges-Weeks Construction Co., \$13,782, and for concrete on the same project, Springfield Construction Co., \$29,006, both of Springfield, Mo.

To build 2.165 miles of earth grade in Wright County, J. G. Nevels & Masoner, Willow Springs, Mo., presented the lowest bid at \$16,349; 3.57 miles of earth grade in Worth County, Mike Haase, Trenton, Mo., \$24,463; 4.652 miles of earth grade in McDonald County, A. C. Cossota, Oklahoma City, \$62,056; 1.719 miles of gravel surfacing in Stoddard County, J. L. Richmond, Advance, Mo., \$19,158; 4.992 miles of gravel surfacing in Miller County, Fogleman & Thompson, Eugene, Mo., \$23,572; 4.308 miles of macadam penetration in Gentry County, E. C. Johnson of Carrollton, Mo., at \$47,695, and also at \$48,027 for a sledge stone base on the same project.

For 2.335 miles of earth grade in McDonald County, C. J. Williams of Monett, Mo., at \$16,662; 3.30 miles of gravel and concrete in Stoddard County, Dexter Construction Co., Dexter, Mo., \$42,904; 3.501 miles of graded earth in Wright County, A. M. Curtis and Bert Ellis, Springfield, \$15,197; .872 miles of gravel in St. Genevieve County, O'Reilly & Co., St. Louis, \$11,472; 5 miles of earth work in Nodaway County, James Stanton, \$29,232, and for concrete paving on the same project, C. H. Atkinson Paving Co., \$81,308; 4.992 miles of gravel in Miller County, Fogleman & Thompson, \$23,572; 4.924 miles of gravel surfacing in Maries, J. M. Birmingham, Vienna, Mo., at \$27,579, and also at \$13,344 for 2.04 miles of gravel in the same county; 4.344 miles of graded earth in Pulaski County, and 2.205 miles of gravel in the same county, J. E. Hartley, Mount Vernon, Mo., at \$14,873 and \$14,175, respectively, and for .949 miles of gravel surfacing in Jefferson County, Jack Carroll of Jackson, Mo., is the lowest bidder at \$12,035.

Bids for the construction of a number of bridges have also been opened here by the State Highway department, the lowest estimates aggregating \$104,754. The following are the projects and lowest bidders on each: One 35-foot reinforced concrete deck girder span in Greene County, Springfield Construction Co., Springfield, Mo., \$3878; bridges over Missouri, Kansas & Texas railway tracks and Salt Fork Creek in Howard County, Acme Engineers, Decatur, Ill., \$48,574, and a concrete bridge in Scott County, Reynolds, Blocker & Crews, Caruthersville, Mo., at \$3343.

For a 20-foot reinforced concrete slab span, with concrete abutments in Wrights County, Kelly & Underwood submitted lowest bid at \$1915; six 35-foot concrete deck girder spans, two concrete piers and abutments in St. Genevieve County, C. P. O'Reilly & Co., St. Louis, \$22,752; one 12-foot reinforced concrete deck girder span and abutments in McDonald

County, B. C. Cossota, Oklahoma City, \$4025; one 20-foot reinforced concrete deck girder span with abutments, in Wright County, J. G. Nevels & Masoner, Willard Springs, Mo., \$1645, and for one 90-foot steel truss span with concrete floor, four 25-foot I-beam spans with wood floors, two reinforced concrete piers and four creosoted wood bents in Saline County, the Missouri Bridge & Iron Co. of St. Louis, at \$18,622.

Marion County, Florida, to Vote on \$1,500,000 Bonds—Plans 137 Miles of Road.

Ocala, Fla.—By order of the Board of County Commissioners of Marion County, an election will be held April 30 on a bond issue of \$1,500,000 for the construction of 137 miles of road in the county. These projects will include 6.6 miles from state road No. 2 near Belleview to the Sumter County line; 14 miles from the Levy County line to state road No. 2, via Blitchton and Emathia; 16.5 miles from the north city limits of Ocala to Alachua County line; 19.3 miles from the west city limits of Ocala to state road No. 5, and 12 miles from state road No. 2 to the Levy County line, via Irvine and Flemington.

There will also be included 9 miles from the east city limits of Ocala to the Ocklawaha River; 21 miles from a point on the Silver Springs and Astor road to the Putnam County line; 17 miles from state road No. 2 near Weirsdale to the Lake County line, and 22.5 miles from Ocklawaha River to the Lake County line.

Duval County Invites Bids on Bridges.

Jacksonville, Fla.—Bids will be received until April 21 by the Duval County Board of Commissioners, Frank Brown, clerk, for the construction of a bridge over Trout Creek and for one over McGirts Creek. The bridges will include moveable spans and a number of approach spans, with embankment approaches. Alternate proposals are asked on double leaf bascule spans and swing spans, as well as on several types of approach spans. Each bridge will be let under four contracts.

Bids will be based upon plans and specifications prepared by Harrington, Howard & Ash, Kansas City, Mo., or upon plans and specifications prepared by the office of C. S. Coe, county engineer, Jacksonville, and contractors may bid on any or all of these plans. Both sets of plans may be secured from Mr. Coe.

Contract for Bascule Span of Ashley Bridge.

Charleston, S. C.—Contract has been awarded by the Sanitary and Drainage Commission of Charleston to the Phoenix Bridge Co. of Phoenixville, Pa., at \$181,191, for the construction of the bascule draw span of the new Ashley River bridge now under construction.

The entire bridge will be more than 1700 feet in length, with a draw span of 138 feet, and will cost about \$1,250,000. It will be of concrete. As reported by the MANUFACTURERS RECORD several months ago contract was awarded to the Sanford & Brooks Co. of Baltimore, at \$1,067,000. J. L. Parker of the State Highway Department, Columbia, is the engineer.

Bids Asked for 6.5 Miles in Kentucky.

Frankfort, Ky.—Bids for building 6.5 miles of waterbound macadam road in Lincoln County will be received until April 22 by the State Highway Commission at its office in this city. This road is officially known as state project No. 22, section G, and extends from Waynesburg north.

North Carolina Contracts for 140 Miles Costing \$3,000,000—Yadkin River Bridge for \$292,000.

Raleigh, N. C.—Contracts have been awarded by the State Highway Commission for building nearly 140 miles of road to cost upward of \$3,000,000, including \$292,009 for a bridge over Yadkin River between Anson and Richmond Counties. The following projects, with contractors for each, have been awarded: In Beaufort County, 8.56 miles, H. M. Beasley, Lumberton, N. C., contractor at \$4435 for roadway, and at \$4957 for structures; 17.51 miles in Martin County, Nello L. Teer, Durham, at \$129,179 for roadway, and J. A. Peterson at \$65,719, for structures.

For 12.15 miles in Nash County, J. F. Mulligan Construction Co., N. Wilkesboro, N. C., \$44,641; 14.137 miles in Carteret County, Frank Mitchell Construction Co., \$501,226; 11.21 miles in Columbus County, Coastal Construction Co., \$331,728; 8.23 miles in Franklin County, R. G. Lassiter Co., Raleigh, \$257,418; 1.34 miles in Lee County, R. G. Lassiter Co., \$44,608; 10.99 miles in Guilford County, Zeigler & Dalton Construction Co. at \$381,179 for roadway, and Piker & Yount at \$24,230 for structures; 11.95 miles in Moore County, W. C. Carter, \$40,814 for roadway, and E. A. Wood & Co. at \$42,500 for structures.

To build 16.51 miles in Stanley County, the Noll Construction Co., Lexington, N. C., secured contract at \$516,576; for 12.61 miles in Caldwell County, W. C. Carter, \$60,647, and for 13.74 miles in the same county, J. T. Platt was awarded contract at \$114,260 for the roadway, and Harris & Spaulding at \$40,645 for structures.

The Hardaway Construction Co. of Charlotte, secured contract for the Yadkin River bridge.

Morganton Asks for Paving Bids.

Morganton, N. C.—Bids will be received until April 8 by the Morganton Town Board of Aldermen at the office of R. W. Pipkin, mayor, for paving and improving streets. The proposed work will involve about 13,000 cubic yards of excavation and grading, 50,000 square yards of plain cement concrete, reinforced cement concrete, sheet asphalt, bitulithic or asphaltic concrete pavement on a 5-inch Portland cement concrete base, 35,000 lineal feet of combination curb and gutter and about 3000 square yards of sidewalk, together with drains and accessories.

Plans and specifications are on file at the office of Charles Lane, city manager, Morganton, and at the office of Warren H. Booker, consulting engineer, Charlotte.

Charles City County Will Build 19 Miles.

Charles City, Va.—The construction of more than 19 miles of road has been planned by the Board of Supervisors of Charles City County, which will receive construction bids until April 11. Work will consist of grading, draining and graveling the following sections: River road from Graves shop to Sandy Point gate, 3.47 miles; Salem Church road from Adams corner on River road to Old Samaria Church on Roxbury road, 6.35 miles; Holdercroft road from Blanks old tavern to end of state road west of Holdercroft, 4.76 miles, and road from Bourns store on River road to Binns store on Roxbury road, 4.5 miles.

Bids Wanted on Five Bridges in Arkansas.

Little Rock, Ark.—Bids for the construction of five steel bridges on the Little Rock-Hot Springs highway in Saline and Garland counties, will be received until April 15, at the office of the Arkansas State Highway Commission here, by the Board of Commissioners of the Little Rock-Hot Springs Improvement District of Pulaski, Saline and Garland Counties. Bridges to be constructed will include a 30-foot I-beam struc-

ture, one 40-foot I-beam bridge, two 50-foot low truss bridges and one bridge consisting of two 60-foot low truss spans. All substructures have either been constructed or are under contract.

It is estimated that 132,000 pounds of structural steel will be required for the truss bridges and 42,285 pounds for the I-beam bridges, while 25,915 pounds of reinforcing steel and about 142 cubic yards of concrete will be used in the floors. Plans and specifications may be seen at the office of M. Lund, Southern Trust Building, Little Rock, and at the office of the State Highway Commission.

Contract for 30 Miles of Sand Clay Road.

Lexington, S. C.—Contracts have been awarded by the state highway department at Columbia for the construction of 30.034 miles of sand-clay road in Lexington County to cost \$105,936. J. L. Carroll of Columbia was awarded contract at \$41,059 to build 12.417 miles from the junction with state road to No. 1 to Swansea, while J. F. Cleckley of Cope, S. C., received contract at \$20,702 for 7.176 miles from a point near Swansea to the Orangeburg County line. Contract was let to T. E. Hook of New Brookland, S. C., at \$44,175 for surfacing 10.441 miles of state route No. 391.

A West Virginia County to Expend \$1,257,400.

Fairmont, W. Va.—Marion County Commissioners will probably award contracts for the construction of roads in three districts for which a total of \$1,257,400 is available. Contracts are expected to be let by July 15 for concrete and macadam roads in Mannington district to cost \$600,000 and in Lincoln district to cost \$333,400. They also expect to contract by July 1 or earlier for macadam roads in Paw Paw district to cost \$324,000. B. H. Palmer of Fairmont is the engineer in charge of the first two projects, and Frank J. Wilfong, Fairmont, of the last named.

Tuscaloosa County to Vote on \$6,000,000 Bonds.

Tuscaloosa, Ala.—An election has been ordered for May 13 by the Tuscaloosa County Board of Revenue on a bond issue of \$600,000 for the construction of concrete roads. Project for which the bonds are to be used include the Tuscaloosa-Birmingham road from the eleven-mile post to Jefferson County line, \$181,250; Tuscaloosa-Greensboro road from north end of Little Sandy bridge to Hale County line, \$85,250; Tuscaloosa-Eutaw road from Tuscaloosa to Green County line, \$182,250, and the Tuscaloosa-Columbus road from Northport to Pickens County line, \$151,250.

Contract for Hardee County Road System Will Embrace 94 Miles to Cost \$850,000.

Wauchula, Fla.—Contract has recently been awarded by the county commissioners to the William P. McDonald Construction Co. of Tampa, for building Hardee County's proposed system of good roads. The project will take in 94.5 miles, of which 75 miles will be covered with surface paving and about 19 miles of sand-clay. Bonds in the amount of \$850,000 were voted in December for building the roads which will reach all sections of the county.

\$275,000 Contract for Caddo Parish Road.

Shreveport, La.—Caddo parish has awarded contract to the Houston Construction Co. of Houston, Tex., to build 10.250 miles of concrete road north and south of Shreveport, the cost of the project to be about \$275,000. Five miles of the road have been reassigned by the Houston Construction Co. to McGuire & Cavender of Sherman, Tex. J. T. Bullen of Shreveport is the parish engineer.

The city of Spartanburg, South Carolina, J. F. Floyd, mayor, has voted \$250,000 street improvement bonds.

TEXTILE

Improvements to Spinning Mill.

Fingerville, S. C.—Improvements underway at the plant here of the Franklin Process Spinning Mill, Inc., consist of remodeling, painting and repairing mill and cottages, construction work being handled by the company's force.

Machinery installations include 11 new spinning frames and 36 head drawing frames, supplied by the Saco-Lowell Shops of Boston and Charlotte, and 40 winders by the Universal Winding Co. of Boston. Lockwood, Greene & Co. of Boston and Atlanta are the engineers.

Sub-Contracts on Addition of Lancaster Mills.

Lancaster, Pa.—Potter & Shackelford, Inc., Greenville, S. C., general contractors for the erection of the new weave shed for the Lancaster Cotton Mills, have awarded the following sub-contracts: Roofing and sheet metal work, J. A. Piper Roofing Co.; plumbing, J. A. Floyd Plumbing Co.; structural steel, Wilson Co., all of Greenville; steel sash, Detroit Steel Products Co., Detroit, Mich.

As previously reported by the MANUFACTURERS RECORD, the building will be 160 by 108 feet, two stories and basement, brick and timber construction. It is stated that the installation will include 320 looms, slasher equipment and cloth room equipment. J. E. Sirrine & Co. of Greenville are the engineers.

Complete Extensive Mill Improvements.

Forest City, N. C., March 21—[Special.]—Extensive improvements have been completed at the Alexander Manufacturing Company's mill here, engaged in the production of hostery yarns. The mill now consists of a yarn mill housing 15,840 spindles, a new weave room, 159 feet by 297 feet high part of which is two stories high, and an office building. The weave shed is connected to the yarn or spinning mill by a runway. On the first floor 188 looms ranging in width from 64 inches up to 100 inches have been installed, and later this year 200 additional looms will be installed, bringing the total to about 400. The second floor of the new building has the spooling, warping, slashing and tying departments. The building is of daylight construction.

Spoolers, warpers and looms were furnished by the Draper Corp., Hopedale, Mass. The finishing machinery was supplied by Curtis & Marble Machine Co., Worcester, Mass. All electrical equipment was supplied by the General Electric Co., Schenectady, N. Y.

J. E. Sirrine & Co., of Greenville, S. C., were the engineers.

North Carolina Mill Sold to New Englander—Henry P. Kendall of Boston Purchases Thrift Plant for \$1,500,000.

The purchase for approximately \$1,500,000, of the Thrift Manufacturing Co., operating a large cotton mill at Paw Creek, N. C., about eight miles from Charlotte, has been announced by W. C. Wilkinson, president of the company. This plant is equipped with 26,208 spindles and 592 looms for the production of high grade cotton piece goods. Mr. Kendall advises the MANUFACTURERS RECORD that the mill will now be used to supply to the Lewis Manufacturing Co. of Walpole, Mass., a larger portion of gray cloth used for surgical dressings, and the only expansion contemplated immediately is the adjustment of the mill to the Lewis product.

Properties included in the transfer, in addition to the mill, embrace about 400 acres of land and 100 operatives' dwellings.

In addition to the Thrift mill, Mr. Kendall also owns two other Southern plants, one at Chesterfield, S. C., and the other at Cheraw, S. C.

\$500,000 Textile Deal in South Carolina.

Goldville, S. C.—Through the agency of A. M. Law & Co. of Spartanburg, the Oswego Shade Cloth Co. of Oswego, N. Y., has purchased the Banna Manufacturing Co. of Goldville, the deal involving about \$500,000. When the transfer has been completed, it is stated that the plant here will be managed by the Spartanburg office of Lockwood, Greene & Co., engineers, of Boston and Atlanta.

The purchasing company will probably increase the capacity of this plant, adding 20,000 spindles and 400 looms to the present equipment of the mill which consists of 14,224 spindles and 352 looms. Details for the enlargement, however, have not been worked out. Heretofore the production of the mill has been wide print cloths, but the new owners will produce cloth for window shades.

The Banna Manufacturing Co. was owned by the Turner-Halsey Co. of New York city, while the Oswego Shade Cloth Co. is a subsidiary of the Stewart Hartshorn Shade Co., with plants at Oswego, N. Y.; East Newark, N. J.; Muskegon, Mich., and Toronto, Canada.

Textile Mill Notes.

The Tuckasegee Spinning Co. of Mount Holly, N. C., has incorporated with an authorized capital stock of \$500,000. Those interested include A. Q. Kale and F. S. Kale of High Shoals, N. C., and C. A. Cochran of Charlotte.

The Covington Silk Mill, Covington, Va., is considering the erection of another unit similar to its present plant which employs 180 operatives.

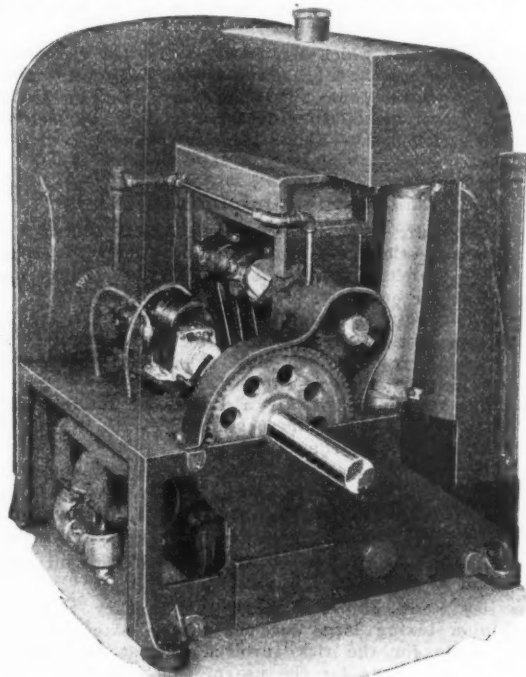


ALEXANDER MANUFACTURING COMPANY PLANT—RECENTLY COMPLETED WEAVE SHED AT RIGHT.

MECHANICAL

New Power Unit for Road Contractors.

A new type of internal combustion engine known as the "Denison Powermaker" was exhibited in the Coliseum at Chicago during the National Good Roads Show and attracted a great deal of attention. Highway engineers and contractors from all over the country and some from foreign lands who attended displayed unusual interest in this new power unit, which is manufactured by the Cook Motor Company of Delaware, Ohio, who have been building internal combustion engines for over twenty years. It is designed especially for



GEAR REDUCTION VIEW—PANELS REMOVED

use as contractors' equipment and in it are engineering features that have proved very successful in European countries. The accompanying picture shows the inverted cylinder construction and gear reduction end.

This machine is an inverted, two cylinder, four cycle, water cooled engine, that is entirely housed in a 16-gauge pressed steel casing. The cylinders, bearing standards and base are all included in one casting which make the unit very rigid, with permanent and proper alignment of piston, crank shaft and cam shaft. This also lowers the center of gravity over the entire machine. The crank shaft, cam shaft, magnet governor assembly, and also the connecting rods, being located on top of the main base casting are very accessible, so that adjustments can be quickly and easily made. The valve box, which includes the valves, intake and exhaust

manifold and carburetor, can be quickly and easily removed by taking out six machine bolts. It is an extremely simple and compactly built engine. The water circulation is rapid and the cooling is uniform.

It is claimed by the manufacturers that this engine is more rugged, that the bearings are larger, and that it is more simple than the automobile type of engine and it is therefore better fitted to construction equipment. The inverted cylinder build enables this engine to be operated with kerosene as well as with gasoline fuel. Power can be taken from the crank shaft at from 500 to 1200 revolutions per minute and from the gear reduction shaft at from 250 to 600 revolutions per minute, giving a power range of from 5 to 12 horsepower from either shaft. The base dimensions of the "Powermaker" are 28¾ by 23¾ inches and the height is 33 inches. It weighs 550 pounds.

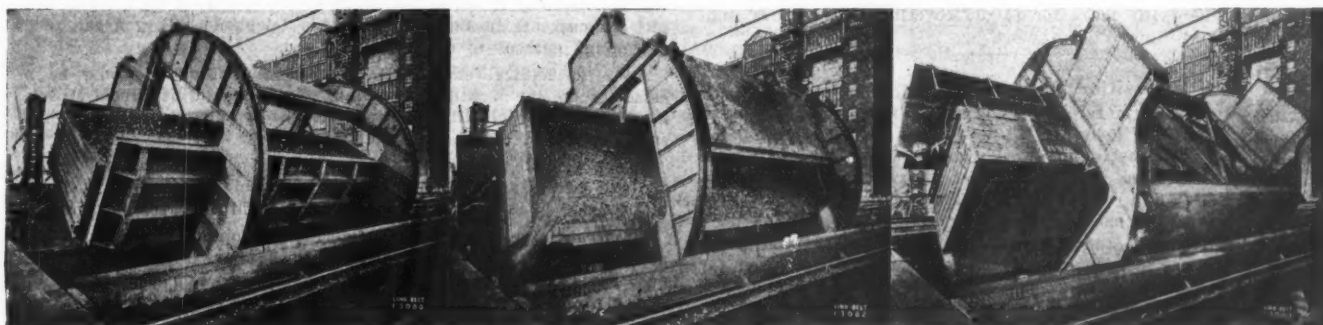
A "Fool-Proof" Car Dumper Installed.

Dumping a fifty ton car of coal in one minute and ten seconds, with only one unskilled man and a thirty-five horsepower motor, is a feat that is being performed daily by a gondola car dumper recently installed at the new Cahokia plant of the Union Electric Light & Power Co., of St. Louis, according to E. H. Kidder, engineer, Link-Belt Company, of Chicago, which designed, manufactured and erected the entire machine.

Only the first unit of the Cahokia plant has been completed and its consumption of coal averages eight cars a day, so that the continued operation of the dumper seldom exceeds twenty minutes, but it is interesting to know that with this minimum load the contractors feel that the dumper pays for itself in time and labor saved; they contrast the rotary dump method with the bottom dump method, which latter usually requires the labor of two men for half an hour to unload only one car of coal. Although the mechanism has three distinct functions to perform the operator needs to use only one controller handle, which starts the motor. All other operations are cared for automatically by limit switches.

The dumper is made up of two roller rings twenty-four feet in diameter and a transfer table or platen on which the car stands, the table being carried on four rollers, two of them being in the plane of each roller ring. Both table and car are firmly secured in position during the dumping operation, which is exceedingly simple so far as the operator is concerned because it is all automatic excepting the movements which he gives to the controller handle.

The most conspicuous feature of this car dumper is its "fool-proof" construction and its simplicity of operation. Any one who is capable of moving the control lever into the forward position for dumping, and thence into the reverse position for the return movement, is perfectly capable of handling the entire mechanism. It is impossible for the operator to perform the cycle in any other than the correct way. The supporting of the car at the dumping side and the clamping at its top are both automatic; their operation depends solely upon the rotation of the machine.



THREE VIEWS OF THE DUMPER IN OPERATION.

Commendations, Kicks and Comments

Of Benefit to Country.

H. H. BROWN, General Contractor, Dothan, Ala.—Your publication is doing a wonderful work, for the South especially, but the good done by such a publication cannot be confined to one section, but will benefit the whole United States.

From the Other Side of the World.

JOHN WHITE, Coolamon, N.S.W., Australia, who is running a farmers' supply store, in renewing his subscription to the MANUFACTURERS RECORD writes an amusing letter about it, asking us to send a statement of the balance due, and adds:

"We will pay for it though thousands of miles intervene, for the human unit and personality and the value of your journal are the same as though adjoining our walls."

Appreciated for Over a Quarter of a Century.

W. N. MALONE, President, Malone Real Estate & Investment Co., Inc., Birmingham, Ala.—I enclose check for \$6.50 to pay for my annual subscription which is a renewal. I certainly want to keep up with the paper, which I have been doing for the past 25 or 30 years. There is no journal I appreciate more, and none that I get more real solid pleasure and comfort from, and at my earliest opportunity I shall be glad to write the MANUFACTURERS RECORD a short letter reviewing the conditions of business in Alabama.

Too Many Immigrants Now.

WILLIAM C. GUTHRIE, Attorney, Jacksonville, Fla.—In accordance with your statement, I take great pleasure in enclosing my check to cover two years' subscription to the MANUFACTURERS RECORD. I value this magazine as the most important one that I receive, and I enjoy every copy.

As a citizen of the State of Florida, I wish to thank you for the splendid cooperation that you are giving in letting the world know that Florida is the best place on the earth to live. I am with you in your fight on immigration question. We have too many now.

Unfolding the Inspiring Story of the South's Progress.

E. L. TARRY, Secretary, The Chamber of Commerce of Haywood County, Brownsville, Tenn.—It may not be unfitting for me to say that I regard the MANUFACTURERS RECORD as having been the most useful instrument of publicity and the most successful herald of its progress that the South has ever had. Fifteen years ago, a Southerner by birth but an absentee of many years, I returned to the South inspired by the stories of its progress which I read in your pages. It has been no less inspirational to me as a resident than it was as an absentee. For that reason I would not give it up if I was going to remain. If I make connection, which is probable, with another organization one of my first stipulations shall be that they subscribe to the MANUFACTURERS RECORD.

"Watch the South Grow" and You Will Be Carried Away By Its Progress.

B. R. ENGLAND, Brimer & England, Knoxville, Tenn.—No other paper in the country occupies the same field and covers the same wide range of activities as the MANUFACTURERS RECORD. Not only has it carried the news to the people of the South and shown them the wonder of this section—the most wonderful section in this wonderful country of ours—but it has carried the news to the people of other sections, this being evidenced by the large textile, hydro-electric and other large developments now under way throughout the South. Just keep up your good work and "watch the South grow."

We enclose herewith check for \$10.00 covering a two years' subscription.

New York Exposition A Great Thing for the South.

NATHAN SIEGEL, Atlanta, Ga. — Your editorial in the MANUFACTURERS RECORD of February 28 is further evidence we of the South have of the constructive work you are doing for the South. I am sure an exposition in New York of all the manufacturing industries of the South will be the greatest thing you have ever suggested, and of the most benefit. More power to you.

The enclosed booklet and clipping from the Atlanta Constitution may interest you. If a substantial market could be developed for the sweet potatoes and peanuts it would be a great blessing to the farmer, who now depends so much on cotton.

I sincerely hope you will continue your constructive work for the South and the nation.

Wishing Success to Manufacturers Record, President Stone Says Is Merely Wishing Success to South.

BONNELL H. STONE, President, Georgia Forestry Association, Atlanta—Your work has been so closely identified with the development of the South, that in wishing you continued success it is merely to wish for the success of this favored section. I am sure that your interest in this development has led you toward very deep convictions as to the need of an adequate forestry policy for this section, which will naturally react to the benefit of the entire country.

Thinks We Are Right This Time Though Wrong Many Times.

H. W. CROSS, Brookline, Mass.—You are, in my opinion, so hopelessly wrong, about Volsteadism, peanuts, and religion, that I take pleasure in expressing my great appreciation of the high value of the enclosed from a single issue of the RECORD.

[The three editorials which Mr. Cross—who often vigorously assails our religious and prohibition views—enclosed were "Dangers That Lurk in National Control of Education;" "Let Us Avoid the Mob Spirit in Governmental Investigations" and "A Blunder of the New York Times Rebuked."—Editor MANUFACTURERS RECORD.]

A Library of Information.

H. J. SCHWIERT, General Development Agent, Illinois Central Railroad Company, Chicago.—I am enclosing herewith check for \$10.00 for two years' subscription to the MANUFACTURERS RECORD instead of \$6.50 for one year.

I think it is hardly necessary for me to express an opinion of the RECORD, the World's Greatest Exponent of the South. Every editorial is worth reading, not only by manufacturers, but by business men in every walk of life.

The MANUFACTURERS RECORD is a library of information and especially so regarding our southern states.

LONG LIVE THE MANUFACTURERS RECORD.

"Give the Plunger A Run for His Money."

E. O. GILMAN, Texas Cement Plaster Company, Fort Worth, Tex.—You have a most wonderful paper with a wonderful purpose and the missing of a single copy "hurts."

Let me say amen to your article of January 17. In my humble opinion taxing large incomes to the extent that there is nothing made for the risk involved and at the same time providing another means for the use of this money by tax free government bonds, is the greatest drawback to the progress of the United States that can be imagined. Take off the high tax—for after all the common people pay the taxes, indirectly—give the plunger a run for his money; dig the foundation out from under the sluggard by eliminating tax-free securities and push him out into business or get the use of his money at a nominal sum, then you will see prosperity such as we have never known before. Keep up the fight and if you can't get what we need, get what you can. Luck to you.

Business is good and Fort Worth will make the whole United States of America take notice before another year. Big things on foot.

A Protectionist Farmer's Views.

WYATT YARBOROUGH, a "Protectionist" Farmer and Ginner, Powhatan, La.—Enclosed find check to renew my subscription.

I note in today's news that Mr. Tesla has announced to the world that he can now transmit power through the air without the use of wires.

I have been claiming for the last year or two that the above was a possibility if not a fact, as it stands to reason that if you can pick up currents in the air to make a telephone talk you can pick up enough current to make a motor run.

As a mechanical engineer by education I think it would be a calamity to the South that Henry Ford should be given Muscle Shoals, with practically no guarantee as to how he will use the enormous power that he will control.

Cheap electric power is the greatest material blessing any country can have, and the South has it at Muscle Shoals, provided the distribution is in such a manner as to benefit the greatest number.

This can only be accomplished by a community interest with the present power transmission companies, who have high tension lines over parts of Alabama, Georgia, North Carolina and South Carolina where there is such a wonderful industrial development.

With Muscle Shoals added to their power units their radius of action westward could be very materially increased.

CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained. Further facts about any incomplete or incorrect item reported in these columns are always appreciated.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$20.00 a year.

Bridges, Culverts and Viaducts

Ark., Little Rock—Board of Comms., of Little Rock-Hot Springs Improvement Dist. of Pulaski, Saline and Garland Counties, will receive bids at office of Arkansas State Highway Comm., Little Rock, until April 15 for 3 steel bridges on Little Rock-Hot Springs Highway in Saline and Garland Counties, as follows: One 30-ft. I-Beam; one 40-ft. I-Beam; two 50-ft. low truss bridges, and one consisting of two 60-ft. low truss spans; 132,000 lbs. structural steel in truss bridges; and 42,285 lbs. structural steel in I-beam bridges; Plans, etc., on file, and from A. M. Lund, Southern Trust Bldg., Little Rock.

Fla., Fort Lauderdale—City plans building 2 bridges as follows: Over north fork of New River; double causeway bridge to Las Olas Beach; will vote April 19 on \$75,000 bonds. Address The Mayor.

Fla., Jacksonville—Duval County Comms. let contracts to F. W. Long & Co., Jacksonville, at \$31,482.31, for 5 concrete and steel bridges as follows: Over Nine Mile Creek, on Kings road; over Drainage Canal on Baldwin Maxwell road; Christopher Creek, San Jose Blvd.; Nine Mile Branch, Kings Creek road; Shad Creek, San Jose Blvd.

Fla., Jacksonville—Duval County Comms., will receive bids until April 21 for 2 bridges as follows: on Main St. No. 4, over Trout Creek; on Orange Park Road No. 5, over McGirts Creek; movable spans, and number of approach spans, with embankment approaches connecting with present highway; alternate bids on double leaf bascule spans, swing spans, and approach spans; plans, etc., from Harrington, Howard & Ash, Engrs., Kansas City, Mo., or C. S. Coe, County Engr.

Ky., Owensboro—E. T. Franks, Federal Vocational Board, and Charles Hazelrigg, Engr., plan building bridge across Ohio River between Owensboro and Rockport, Indiana.

La., New Orleans—Commr. Murphy will receive bids soon for viaduct approach at Canal St. Ferry.

La., New Orleans—Louisville & Nashville R. R., W. H. Courtenay, Ch. Engr., Louisville, Ky., will expend \$1,500,000 for bridge across Chef Menteur, near New Orleans; Company advises by wire "Bridge over Chef Menteur near New Orleans, will have two 270-ft. through truss fixed spans, and one 279-ft. draw, supported on concrete piers, 130-ft. high from foundation to top." Company further advises: "Missouri Valley Bridge & Iron Co., Leavenworth, Kansas, will construct piers; east and west approaches to bridge will each be about 4400 ft. in length, and will be constructed of timber trestle work, and later filled with clay excavated from beneath water level at Lakeshore, Miss.; the Railroad Co. will build approaches with its own forces; work on structure has not yet commenced."

Md., Annapolis—State Roads Comm., 601

Garrett Bldg., Baltimore, Md., received low bid from American Paving & Contracting Co., Montebello Ave., and Jenkins Lane, Baltimore, at \$34,635, for .67 mi. 20-ft. sheet asphalt, 6-in. concrete base over Severn River Bridge.

Md., Frederick—Frederick and Carroll Counties contemplate building bridge over Sam's Creek in Lingular Dist. Address County Comms.

Miss., Macon—Noxubee County will receive bids until April 7 to furnish material and build 2 wooden bridges as follows: Over Dry Creek on Macon and Gholson road, about ½ mi. north of Macedonia; on Macon & Jackson Ferry road, about 2 mi. from State line; Jno. A. Tyson, Clk.

Missouri—State Highway Dept., Jefferson City received low bids for 9 bridges as follows: Wright County, 2 on road from Mansfield east and west; reinforced concrete, over stream, Kelly & Underwood, Granby; reinforced concrete, over stream, J. G. Nevels & Masoner, Willow Springs, Mo.; St. Genevieve County, 2 on road from Festus to St. Genevieve; reinforced concrete, over Joe Branch, C. P. O'Reilly & Co., St. Louis, at \$12,723.15; reinforced concrete, over Isle Du Bois Creek, C. P. O'Reilly & Co., at \$10,029.85; McDonald County, reinforced concrete, over stream on road from Anderson south, B. C. Cossota, Oklahoma City; Saline County, steel truss span, over Salt Fork Creek, on road from Marshall to Miami, Missouri Bridge & Iron Co., St. Louis, at \$18,622.33; Greene County, reinforced concrete, over Sequoia Branch, on road from Springfield south, Springfield Construction Co., Springfield; Howard County, steel and reinforced concrete over Missouri, Kansas & Texas R. R. tracks, and Salt Fork Creek, on road from Kansas City to St. Louis, Acme Engineering Co., Decatur, Ill., at \$48,574.10; Scott County, reinforced concrete, over Drainage Ditch on road from Belton to Charleston, Reynolds-Blecker & Crews, Caruthersville, Mo.

Mo., Linneus—State Highway Dept., Jefferson City plans building bridges in Linn County, on road from S. Joseph to Hannibal, as follows: Over Big Turkey Creek, four 20-ft. reinforced concrete slab spans, 5 reinforced concrete bents, 20-ft. roadway; over Little Turkey Creek, three 20-ft. reinforced concrete slab spans, 4 reinforced concrete bents, 20-ft. roadway; over Elk Creek, three 30-ft. reinforced concrete deck girder spans, 4 reinforced concrete bents, 20-ft. roadway; over Ditch, two 10-ft. reinforced concrete slab spans, reinforced concrete pier, 2 reinforced concrete abutments; over Muddy Creek, 80-ft. steel truss span, concrete floor, 20-ft. roadway, six 20-ft. reinforced concrete slab spans, 2 reinforced concrete piers, and bents; B. H. Piepmeyer, Ch. Engr.

North Carolina—State Highway Comm.,

Raleigh, received low bid from Hardaway Construction Co., Charlotte, at \$292,609.10 for bridge over Yadkin River between Anson and Richmond Counties.

Tex., Beaumont—City and Southern Pacific Ry., Geo. W. Boschke, Ch. Engr., San Francisco, Cal., will expend \$1,250,000 to build viaduct through city; city to pay 30 per cent; railway 70 per cent. Address The Mayor.

Tex., Canadian—Panhandle & Santa Fe Ry. Co., M. C. Blanchard, Ch. Engr., Amarillo, Tex., let contract to Missouri Valley Bridge & Iron Co., Leavenworth, Kansas, for foundation for bridge over South Canadian River; superstructure to be placed by Railway Co.; work involves six 115-ft. girder spans at each end of present steel bridge; foundations to be placed by pneumatic method; also 1500 lin. ft. sheet pile protection; piling 70-ft. long; reported estimated cost \$1,000,000. (Lately noted.)

Tex., Coleman—Coleman County will receive bids until April 16 to build substructure; one 100-ft. steel span; two 50-ft. steel spans, and one 20-ft. I-beam approach span; place wooden floors on them; located about 20 mi. northeast of Coleman, on Pecan Bayou; will also receive bids at same date for crossing on Elm Creek, 30 mi. southwest from Coleman; plans, etc., from W. E. Dickerson, County Engr.; S. J. Pieratt, County Judge.

Tex., Corpus Christi—State Highway Dept., Gibb Gilchrist, Ch. Engr., Austin, authorized \$12,000 to re-surface causeway connecting Neices and San Patricio County Shore line.

Tex., Houston—Details under Road and Street Construction.

Tex., La-Feria—Cameron County let contract to Austin Bridge Co., Dallas, at \$21,400 for 180-ft. steel bridge and approaches across Arroyo Colorado.

Tex., McKinney—Collin County let contract to Brown-Abbott, Dallas, at \$90,000 for steel truss and concrete slab bridges.

Tex., San Antonio—Tom Green County plans building bridge over Middle Concho River on Central Texas Highway No. 7, 12 mi. from San Angelo; 120-ft. steel span; concrete floor; 100 ft. concrete approaches; reinforced concrete pile bents. Address County Comms.

Va., South Boston—Halifax County, Board of Supvrs., plans expending \$60,000 for concrete bridge over Dan River at South Boston; State Highway Comm., Richmond, appropriated \$40,000 to improve highway from bridge south to present improved highway leading to Durham.

Canning and Packing Plants

Ark., Cotter—Dixie Canning Co. will erect plant.

Va., Disputanta—Southeast Preserving Co.,

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

capital \$20,000, incorporated with M. J. Berer, Pres., Pittsburgh, Pa.; I. Skirboll, Sec., Petersburg, Va.

Clayworking Plants

Okla., Poteau—Poteau Brick Co., capital \$45,000, incorporated by J. W. Talton of Poteau; E. S. Hutton and J. W. Bates of Muskogee, Okla.

Va., Roanoke—Webster Brick & Tile Corp., capital \$20,000, incorporated with O. H. Gish, Pres., Roanoke; W. R. Rieley, Sec., Blue Ridge Springs.

Coal Mines and Coke Ovens

Ala., Birmingham—Pinson Black Creek Coal Co., incorporated by Tom Stobert, R. L. Clark and others.

Ala., Oneonta—Blount County Coal Mining Co., capital \$10,000, incorporated by J. G. Rowell, E. H. Rauwald and others.

Ky., Madisonville—Chickasaw Coal Co., capital \$25,000, incorporated by James D. Overall, J. Basil Ramsey and others.

Ky., Pikeville—Pike Fuel Co., capital \$10,000 incorporated by Willis Staton, Mat Sanders and others.

N. C., Biltmore—Biltmore Fuel Co., capital \$10,000, incorporated by Frank E. Pearre, V. N. Felmet, both Biltmore; R. B. Beckwith, Asheville, N. C.

Okla., McAlester—McAlester Craig Coal Mining Co., capital \$35,000, incorporated by H. C. Clark, R. D. Cannon and others.

West Virginia—Carnegie Coal Co., office Oliver Bldg., Pittsburgh, Pa., reported to have acquired 400 acres coal land; property is in Liberty district of Ohio County and Buffalo district in Brooke County, known as Pittsburgh seam; will develop.

W. Va., Charleston—John Oldroyd, Pres., the Thomas and Wilson Coal Co., has leased 515 acres coal land in Cabin Creek district, will develop.

W. Va., Lost Creek—The Wilbur Fuel Co. capital \$500,000, organized with D. J. Carter, Pres., Clarksburg, W. Va.; E. J. Lewis, V. P. and Treas.; R. D. Lloyd, Gen. Mgr.; company organized to take over the plants and holdings of the Eastern Utilities Coal Co. and the Vulcan Coal Co., operating in the Grant district of Harrison County; holdings include 1198 acres in fee in addition to 468 acres, which include the mining towns of Thermal and Righter, having about 115 homes and other plant buildings.

Concrete and Cement Plants

Fla., St. Petersburg—Farmer Concrete Works, H. A. Farmer, Pres.-Treas., has acquired lots 1 to 7, inclusive, of Wilson Terminals at 24th and 7th Aves.; will erect new plant, first unit to be 100 ft. square warehouse; the new plant will double the capacity of present one at Bayboro, will also move present buildings from Bayboro in units; install automatic, electrically driven machinery, including the latest type of concrete mixers, hydraulic presses and moulders; automatic conveyors will transport finished materials to the storage sheds.

N. C., Asheville—Biltmore Concrete Co., capital \$50,000, incorporated by W. H. Rainey, Chas. Mannel and others.

S. C., Columbia—Capitol Concrete Co. incorporated with F. N. Ehrhart, Pres.; W. J. Hicklin, Sec.

Tex., Fort Worth—Burton Concrete Products Corps., Dan Waggoner Bldg., (Lately noted inceptd., capital \$70,000) organized with L. L. Burton, Pres.; F. H. Scott, Sec.; will erect concrete and steel plant, construction by day labor; will install sewer pipe and drain tile machines, metal forms for making units of the Burton type; daily output esti-

mated at 400 tons for concrete products. (See Machinery Wanted—Concrete Products Machinery.)

W. Va., Ackerman, P. O. Ridgeley—Titan Cement Co. reported to have acquired 555 acres land with 10,000 ft. frontage on the Potomac river, to erect cement plant, daily capacity 1200 bbls; estimated cost \$337,000; will move rock crushing plant from the quarries, and will form part of the equipment for new plant.

Cotton Compress and Gins

Miss., Moselle—Moselle Farmers Gin Co., capital \$12,000, incorporated by J. M. Bryant, P. P. Toler and others.

Mo., Cardwell—Leachville Gin Co., capital \$10,000, incorporated by O. D. Hall, J. E. Brewer and others.

Okla., Hobart—Hobart Cotton Growers Gin Co., capital \$20,000, incorporated by E. M. Watkins, J. L. Flow and others.

Tenn., Memphis—Memphis Warehouse Co. chartered under laws of Virginia with \$1,800,000 capital, with R. L. Taylor, Pres., West Memphis, Ark.; H. W. Drane, Sec.; has acquired properties of the Memphis Terminal Corp.; Joseph Newburger, Memphis, also interested.

Tex., Canyon—T. R. Hogan of McAlester, Okla., interested in erection of cotton gin.

Tex., Odell—S. B. Starr will erect reinforced concrete gin, fireproof.

Cottonseed-Oil Mills

N. C., Forest City—Forest City Oil Mill Co., increased capital from \$10,000 to \$15,000.

Drainage and Irrigation

Miss., Yazoo City—Christian J. Mounier, Adjuster of the Aetna Casualty & Surety Co., 802 Whitney Bldg., New Orleans, La., are receiving bids for the completion of the defaulted portion of Rocky Bayou Drainage Dist. canal and levee and the Eden Drainage District canal and levee contract; J. B. Williams, Civil Engr. for both districts, Yazoo City.

Electric Light and Power Plants

Fla., Miami Beach—American Light & Power Co., C. E. Groesbeck, Pres., 120 Broadway, New York, reported to expend \$1,000,000 in improvements to electric light and power system, lately noted acquired.

Fla., New Smyrna—City, George J. Ott, City Mgr., is having plans prepared for white way system on Canal street. (Lately noted.)

Fla., Tampa—City, W. Lesley Brown, Mgr., has tentative plan for installing electric lights in Seminole Heights.

Fla., Tampa—Details under Land Developments.

Kentucky—Cumberland Hydro-Electric Power Co., 1011 Fletcher Bldg., Indianapolis, Ind., reported to have acquired preliminary permit from the Federal Power Comsn., Interior Bldg., Washington, D. C., for three dams on the Cumberland River; two dams to be built between Burnside and Williamsburg, Ky., and a third in south fork of Cumberland River near Burnside.

Ky., Mount Eden—Mt. Eden Light and Power Co., incorporated by J. P. Kirkman, John H. Green and others.

La., Lafayette—Details under Water Works.

Md., Annapolis—Public Service Comsn. approved franchise granted to Annapolis and Chesapeake Bay Power Co. by county commissioners of Anne Arundel, Howard and Prince George counties.

Miss., Fayette—City, J. E. Briggs, Mayor, has under consideration enlargement of elec-

tric plant installation of additional 100 h.p. engine and dynamo unit. (Lately noted.)

Miss., Jackson—Details under Land Developments.

Miss., Natchez—Southern Railway & Light Co. is receiving bids for construction of power house; brick, structural steel, steel sash, corrugated iron roof; John M. Marriott, Archt., Frost Bldg., San Antonio, Tex.

Mo., Cameron—Board of Public Works let contract to Carothers Brothers of Kansas City, Mo., to construct city power house.

Mo., Dexter—Union Electric Light & Power Co. will construct transmission line from Dexter to Bernie.

N. C., Asheville—Details under Land Developments.

N. C., Farmville—City, M. V. Horton, Mayor, receives bids until April 29 to furnish equipment and construct improvements to municipal power and lighting plant; project consists of construction of an addition to present building to house new equipment; reinforced concrete spray pond with piping and spray equipment for cooling condensing water; concrete foundations for mechanical and electrical equipment; furnishing and erection of a 250 K.W. Uni-flow engine-generator unit; furnishing of a generator and 2 feeder panels; furnishing of a surface condenser, vacuum and circulating pump, valves, piping, separators, etc.; Wm. C. Olsen, Consit. Engr., Raleigh, N. C.

N. C., High Point—Details under Sewer Construction.

N. C., Spindale—Details under Water Works.

N. C., Tarboro—Crisp Power Co., Route 2, capital \$20,000, incorporated by W. W. Eagles, E. M. Lovelace and others.

N. C., Winston-Salem—Southern Public Utilities Co. reported to erect an industrial power substation corner of Thirteenth and White streets; station will carry three 333 K.V.A. transformers, supplying 1000 h.p., fed from main transformer on Second street.

Tex., Columbus—Board of Water Engineers granted permission to Sr. A. S. McDaniel of San Antonio, Tex., to build dam 12 ft. in height to divert 800 cu. ft. of water per second from Colorado River to develop power.

Tex., Dallas—Details under Land Developments.

Tex., Dallas—City Comsn. let contract to Superior Electric Co., to construct white way system on Lamar St. from Pacific Ave. to Commerce St. (Lately noted.)

Tex., El Paso—City Plan Comsn., W. E. Stockwell, Engr., contemplates installation of 122 two light standards in downtown district; specifications and date of opening bids not determined. (Lately noted.)

Tex., Fabens—Fabens Utilities Co., capital \$75,000, incorporated by A. Frederickson, Gowan Jones and others.

Tex., San Antonio—Texas Rapid Transit Co., E. G. Potter, Engr., Moore Bldg., reported to construct gas-electric interurban line from San Antonio to Austin.

Va., Shawsville—Shawsville Light & Power Co. organized with G. W. Gardner, Pres.; J. R. Sisson, Sec.; let contract to L. B. Good of Matthews Engineering Co., 10 E. Church Ave., Roanoke, for Mathews full automatic light and power plant with capacity of 6 k.w. and 100 volts; will erect concrete house for housing equipment; has let contract for construction of about 1½ miles transmission line.

W. Va., Gauley Bridge—The Gauley Electric Co., incorporated by L. M. Kryder, O. E. Crandall and others.

Flour, Feed and Meal Mills

Tex., San Antonio—Pioneer Flour Mills is receiving bids through W. E. Simpson & Co., Engrs., National Bank of Commerce Bldg., for construction of 7 story reinforced concrete plant adjoining present mill on Guenther St.; first 3 stories of building 56x150 ft. and remainder 36x106ft.; Burrell Engineering & Construction Co., Archts., Chicago, Ill. (Lately noted.)

Fertilizer Plants

Tex., Mexia—Western Agricultural Chemical Co., C. C. Campin, Gen. Mgr., will erect two buildings for fertilizer plant.

Foundry and Machine Plants

Ky., Middlesboro—Kentucky Mines Supply Co., increased capital from \$200,000 to \$250,000.

La., Shreveport—The W. K. Henderson Iron Works & Supply Co., Ward Delaney, V.-P., let contract to Leonard Construction Co., of Chicago, Ill., to construct foundry building; will install modern equipment, including two electric steel furnaces and two grey iron cupolas; has a 15 acre site on main highway between Shreveport and Texarkana; the office, machine, boiler, blacksmith shops and pipe yards will remain in their present location; Frank D. Chase, Inc., Engr.

Mo., Joplin—Rogers Foundry & Manufacturing Co., John A. Rogers, Pres., has taken over the business and property of the Joplin Steel & Malleable Co., at 3rd and Railroad Sts.; will remodel, also move portion of equipment from former plant at Baxter Springs, Kan.

Mo., Morrison—Fore Piston Ring Manufacturing Co., incorporated by John Mittendorf, of St. Louis, Mo.; George F. Frechmann, of Morrison, and others; will manufacture piston rings for automobiles and stationary engines; daily capacity 2500 rings.

Mo., St. Louis—Crescent Tool & Manufacturing Co., capital \$20,000, incorporated by F. W. Grundmann, 2349a Washington St.; O. W. Reinke and others.

Mo., St. Louis—Economy Engine Corp., chartered by Seymour Schiele, Buckingham Hotel; Ernest Evans, 6644 Washington Ave., and others.

Okla., Oklahoma City—Burnley Machinery Co., capital \$10,000, incorporated by H. E. Burnley, A. E. Kalkhurst and others.

S. C., Columbia—Atlantic Engine Works, capital \$10,000, incorporated by T. P. Knox, W. L. Gaines and others.

Tenn., Athens—The Athens Plow Co., E. L. Wilson, Gen. Mgr. let contract for an additional building to be used for a foundry.

Tex., San Antonio—Texas Laundry Machinery Co. increased capital from \$40,000 to \$50,000.

Tex., San Antonio—Kruger Machinery Co. increased capital from \$250,000 to \$300,000.

W. Va., Parkersburg—The J. B. McKain Fishing Tool Co. will erect machine shop for the manufacture of oil field supplies.

W. Va., Parkersburg—Parkersburg Machinery Co. will erect modern machine shop to manufacture oil field supplies.

Gas and Oil Enterprises

Ala., Talladega—City voted \$75,000 bonds for construction of gas plant. Address The Mayor.

Fla., Tampa—Details under Land Development.

Ky., Louisville—Kentucky Utilities Co., increased capital from \$10,000,000 to \$15,000,000.

Ky., Owensboro—Pellville Oil Co. increased capital to \$10,000.

Okla., Blackwell—Blackwell Gas Co., capital \$100,000, incorporated by J. W. Randall, of Blackwell; R. C. Jones, Cushing, Okla.

Okla., Oklahoma City—Diamond Oil Corp., capital \$100,000, chartered by A. J. Schlosser, L. C. Roberts and others.

Okla., Tulsa—Royalty Investment Co., capital \$100,000, incorporated by G. J. McKinley, C. D. Peters and others.

Okla., Tulsa—Double A Oil and Gas Co., capital \$10,000, incorporated by A. T. Allison, C. T. Abbott and others.

S. C., Rock Hill—Rock Hill Oil Co., capital \$10,000, incorporated with T. Q. Blackwelder, Pres.-Treas.; C. B. Jordan, Sec.

Tenn., Clarksville—Kentucky Public Service Co. let contract for erection of generating plant, consisting of complete set of silica retorts with Conley patent washer standpipes, etc.

Tex., Cisco—P. T. C. Oil Co., capital \$10,000, incorporated by E. W. Price, Fred Thoney and W. J. Copeland.

Tex., Cleburne—Independent Oil Co., capital \$20,000, incorporated by A. L. Lockman, W. P. James and others.

Tex., Colorado—Anderson Prichard Oil Corp., J. Steve Anderson, V. P., Oklahoma City, Okla., has acquired 12 acre site for erection of refinery; capacity 2000 bbls.; will construct high pressure pipe line from field to refinery, distance of 14 miles; also pump station and crude oil stations; cost \$150,000; plant equipment has been purchased.

Tex., Corpus Christi—Sinton Pipe Line Co., capital \$250,000, incorporated by W. L. Moody, III, Harry A. Root and others.

Tex., Corsicana—Hamill Drilling Co., chartered by C. G. and E. M. Hamill and others.

Tex., Dallas—Warren Daniel Oil Co., capital \$50,000, incorporated by W. T. Daniel, R. A. Grady and others.

Tex., Dallas—Balcones Lease & Royalty Co., capital \$10,000, incorporated by C. P. Fink, Abe Goodman and others.

Tex., Fort Worth—Hoffer Oil Corp., capital \$2,000,000, chartered with T. B. Hoffer, Pres.; F. N. Moss, V.-P. and Treas.; to develop 3000 bbl. oil well in Seminole County, Okla.

Tex., Fort Worth—West Texas Oil and Gas Co. incorporated by C. D. Lovelace, R. K. Covington and others.

Tex., Fort Worth—McCorkle Pipe Line Co., S. R. McCorkle, Chrmn. of Board, Suite 504, Burnett Bldg., advises the Manufacturers Record that the company is contemplating the construction of 715 miles of pipe line through oil fields of Texas, actual construction to begin May 1st; no orders placed for purchase of equipment or material. (Lately noted.)

Tex., Houston—Inca Production Co. increased capital from \$10,000 to \$250,000.

Tex., San Antonio—Ina Oil Co. increased capital from \$5000 to \$30,000.

Tex., San Antonio—Consumers Natural Gas & Power Co. will construct 5 miles of 6-in. oil pipe line from Gas Ridge to San Antonio; estimated cost \$50,000.

W. Va., Charleston—Clifton Oil & Gas Co., incorporated by J. C. Collingwood, R. D. Duane and others.

Ice and Cold-Storage Plants

Fla., Jacksonville—Mumby Ice Co., James K. Stathis, Pres., let contract to Charles E. Hillyer, to erect 1-story plant building on 8th St., sheet iron construction; daily capacity 35 tons; estimated cost \$50,000;

foundation about completed; an artesian well to furnish water supply is being sunk to depth of 350 ft.

N. C., Charlotte—Y. and B. Corporation, main plant 300 S. Graham St. will erect new suburban ice plants and has plans being prepared for a modern "Snow-white Daylight" ice cream factory.

N. C. Goldsboro—Crystal Ice & Fuel Co. (lately noted incorporated, capital \$100,000), W. L. Rawlings, will erect ice plant; soon let contract.

S. C., Chester—Chester Ice & Fuel Co., Henry M. DeVega, Propr., has begun construction on ice plant on Celter St.; will install 115 h.p. electric motors. (Lately noted.)

Tex., Luling—Lone Star Ice Co., San Antonio, will erect 20 ton ice plant; install Frick ammonia compressor and a De La Vergne oil engine; estimated cost \$30,000.

Va., Lynchburg—C. H. Bell of Ashley, Ohio, reported to have purchased site at Fifth and Pierce Sts. to erect 100 ton daily capacity ice plant.

Va., Lynchburg—Lynchburg Diamond Ice Factory, G. A. Pearson, Sec., let contract to Fulgley Hafer, Chambersburg, Pa., to erect 80 x 100-ft. building, on Adams St., for additional cold storage; concrete and brick construction; will install piping; R. C. Newbold, Archt., 1430 Penn Square, Philadelphia, Pa. (Lately noted.)

W. Va., Romney—Hampshire Cold Storage Co., capital \$65,000, incorporated by J. D. Christopher, L. P. Kelley and others.

Iron and Steel Plants

Md., Hagerstown—The Tidewater Steel Corp., controlled by Baltimore interests, reported to locate \$1,000,000 plant at Hagerstown, to employ 200 persons; Reuben S. Baldwin, Fidelity Bldg., and M. D. Perine, 1009 W. Baltimore St., both Baltimore, interested.

Tenn., Nashville—Nashville Bridge Co., increased capital to \$800,000; extensions are being made to double capacity of plant. Wire from Company states: The capital of the Nashville Bridge Co. has been increased to \$800,000 and the Bessemer Coal, Iron and Land Co. has become interested. The capacity of production has been more than doubled by the addition of a well-equipped modern structural shop at Bessemer, Ala., with a capacity of upwards of 2000 tons of structural steel per month; there is also constructed in conjunction with this plant a well-equipped galvanizing plant.

Land Development

Ala., Bessemer—Bessemer City Council has acquired tract of land and will develop for park; has let contract to W. L. Coston, for construction of grand stand with seating capacity of 2000.

Ala., Birmingham—Munger Realty Co., Inc., chartered by Robley C. Munger, Eugene Munger and others.

Ala., Birmingham—Franklin-Crawford Realty Co., incorporated by Frank Rushton, Crawford Johnson and Henry A. Howse.

Ala., Birmingham—Realty Service Corp. incorporated by Robt. S. Smith, Otis C. Gibson and others.

Ala., Tuscaloosa—City Realty Co., Inc., chartered by J. V. Lary, J. C. Persons and others.

Fla., Eustis—J. R. Perkins will develop subdivision on Lake Joanna.

Fla., Fort Pierce—J. B. McDonald of West Palm Beach has acquired 80 acre tract of ocean front property and will develop for subdivision.

Fla., Jacksonville—Joe H. James & Son, incorporated with Joe H. James, Sr., Pres.; Joe H. James, Jr., Sec.

Fla., Jacksonville—City, Wm. P. Belote, Mayor, interested in establishing golf course.

Fla., Leesburg—J. D. Young will develop 217 acres for home sites; will improve 1700 ft. of lake front, build 2 miles of roads and streets, etc.; owner architect and builder. (Lately noted.)

Fla., Longwood—Jake Jessup Land Co., capital \$200,000, incorporated with L. N. Pipkin, Pres.; E. Hy Palmer, Sec.

Fla., Miami—Krames-Corlett Co., P. O. Box 1008, capital \$10,000, incorporated with E. S. Corlett, Pres.; W. H. Krames, Sec.; has acquired 6 acres of land on East Dixie Highway and will develop for subdivision; pave and oil double parkway drive, cement sidewalks, water mains, shrubbery, electric lights, parkways, etc. (Lately noted.)

Fla., Miami—National Realty Co., capital \$10,000, incorporated with J. W. Bullock, Pres.; C. H. Nelson, Jr., Sec.

Fla., Miami Beach—Joseph Elsner, F. L. Wall and others are reported interested in organizing company with \$2,000,000 capital to develop subdivision on La Gorce Island.

Fla., Miami—L. T. Cooper and associates will develop an addition to Bay View Estates; construct fill, extending land 650 ft. into the bay; will soon let contract for fill and bulkhead; work under direction of P. L. Watson and E. B. Garriss, Civil Engrs.

Fla., Miami—Coconut Grove Burial Park, capital \$10,000, incorporated with Blanche G. Raub, Pres.-Treas.; E. L. Stapp, Sec.

Fla., Miami Beach—Carl G. Fisher approved plans of Capt. H. C. Tipple, Golf Director, for expending \$30,000 in improvements to Miami Beach Golf Course; plans include \$13,000 for fairways; \$6000 for reconstructing greens, remainder of sum will be used for enlargement of greens, etc.; \$5000 will be spent on renovating Miami Beach Golf Club Course.

Fla., Milton—T. A. Rozier of the Allen-Faircloth Motor Co., has acquired tract of land and will develop for fruit farm.

Fla., Milton—B. F. Dixon of Jay, Fla., will develop pecan orchard.

Fla., Orlando—Bonita Park Land Co., capital \$10,000, incorporated with August J. Bloom, Pres.; Harley Preston, Sec.

Fla., St. Petersburg—Riviera Country Club, Fred C. Bell, Pres., is proceeding with development of 325 acres of land for golf course; will construct yacht club, Roman plunge, to accommodate 2000 bathers, with a stadium on either side, 4 story casino building, etc.; golf course designed by Donald Ross, 459 7th Ave., New York; John J. Watson, Toledo, Ohio, Landscape Archt.; J. Lloyd Preacher, Archt., Atlanta, Ga. (Lately noted under Miscellaneous Structures).

Fla., St. Petersburg—The Norfolk Corp., capital \$10,000, chartered with H. L. Page, Pres.; Herman Le Page, Sec.

Fla., St. Petersburg—Ponsettia Holding Corp., capital \$8000, chartered with May F. Purnell, Pres.; H. C. Chamison, Sec.

Fla., Tampa—Investment Corporation, capital \$25,000, incorporated with Thos. C. Hammond, Pres., Giddens Bldg.; T. L. Karn, Sec., Lucas Bldg., has acquired 115 acres of land and will develop for home site; construction to begin in the fall. (Lately noted.)

Fla., Tampa—A. J. Sims & Co., capital \$200,000, will develop 116 acres of land for subdivision; will expend about \$200,000 for improvements to consist of gas and electric

lights, sewer, water works, roads and streets, etc.; construction work to begin in 30 days. (Lately noted.)

Fla., Tampa—Robert A. Meier, West End Trust Bldg., Philadelphia, Pa., and J. H. Mason of Tampa, Fla., acquired 30 acres of land in Southland Park subdivision.

Fla., West Palm Beach—Home Finance Corp., D. L. Williams, Pres., has acquired 88 acre tract of land on E. Parker Ave. and will develop for home site.

Ky., Pikeville—Station Springs Park Co., capital \$10,000, incorporated with Willis Staton, W. A. Daugherty and others.

La., Monroe—Ouachita National Co., Inc., capital \$25,000, incorporated with T. E. Flournoy, Pres.; F. F. Millsap, Sec.-Treas.

Md., Baltimore—Ideal Realty Co., Inc., 1914 Oak Hill Ave., capital \$100,000, incorporated by John H. Schwatka, Daniel Finn and others.

Md., Baltimore—Montebello Land Co., 919 Munsey Bldg., capital \$100,000, incorporated by Edward J. Gallagher, Chas. P. Coady and others.

Miss., Jackson—City Council will establish Tourist Camp at Livingston Park; will install water, electric lights, sewers, etc.

Miss., Kosciusko—Acme Investment Co., capital \$25,000, incorporated by J. H. Cain, O. K. Power and others.

Mo., Kansas City—Drury Realty Co., capital \$21,000, incorporated by Walter P. Joyce, Rose Kronforst and others.

Mo., St. Louis—Linford Investment Co., capital \$30,000, incorporated by A. W. Lambert, 3933 W. Pine St.; O. Graves and others.

Mo., St. Louis—Rhodes Realty Co., incorporated by M. C. Rhoades, 5658 Enright St., C. E. Veatch, 5915 Washington Ave., and others.

N. C., Asheville—J. T. Bledsoe and N. P. Robinson will develop 25 acres of wooded land in West Asheville for subdivision; will lay out streets, water and sewer systems, telephones, electric lights and paved sidewalks, etc.

N. C., Greensboro—Lindley Park, Inc., capital \$100,000, incorporated by Chas. A. Banks, Jr., Joseph Taylor, Jr., and others.

N. C., High Point—S. C. Clark will develop 15 acres northeast of the city for park cemetery, an addition to Oakwood Cemetery; will install permanent paved drives, walks, etc.; expend about \$20,000; will probably erect chapel; E. S. Draper, Landscape Archt., Charlotte, N. C. (Lately noted.)

N. C., Newbern—Newbern Holding Co., capital \$38,000, incorporated by W. W. Griffin, H. M. Jacobs and others.

N. C., Wilmington—Wilmington Real Estate Board reported interested in development of Summer Rest on Wrightsville sound into a modern tourist camp; constructing roads, install water sewers and lights, etc.

S. C., Aiken—W. R. Callaway will establish summer resort on Silberbluff road; construct dam, install electric lights, bathing pavilion, etc.

S. C., Florence—Florence Country Club has retained E. S. Draper, Landscape Archt. and City Planner, 11 E. 5th St., Charlotte, N. C., to supervise development of 9 hole golf course, swimming pool, tennis court, etc.; Donald Ross, Conslt. Golf Archt.

S. C., Florence—E. S. Draper, Landscape Archt., Charlotte, N. C., has contract for construction of golf course at Country Club; cost about \$150,000.

S. C., Gaffney—E. H. Haines, Pres. Shnapps Ginger Ale Co., is planning the development of homesite on College st.; will construct

roads and streets with parkway in the centre with driveways 16 ft. wide on each side; ornamental stone entrance, etc.

S. C., Greenville—Standard Realty Corp. incorporated with R. H. Smith, Pres.; G. L. Porter, Sec.

Tenn., Memphis—Avalon Realty Co., Lester E. Moody, lately noted incorporated with \$25,000 capital, will develop tract of land for subdivision; install streets, curbs, sidewalks, etc.

Tex., Beaumont—Richardson Realty Co., capital \$500,000, incorporated by Bruce Richardson, W. C. Tyrrell and others.

Tex., Dallas—The Hollywood Co., 618 American Exchange Bank Bldg., will be incorporated with \$100,000 capital, with E. Raymond Moss, Pres.; Joe B. Salmon, Jr., Sec.; will develop 150 acres for residence addition; will install permanent paving on all streets, water, gas, electric light and sewer lines, curbs and walks; total cost \$375,000; J. M. Preston, Conslt. Engr., Central State Bank Bldg. (See Machinery Wanted—Pipe (Water); Fire Hydrants.)

Tex., Fort Worth—Cleo Ranch Co., capital \$50,000, incorporated by John Kennedy, Walter J. Crooker and others.

Tex., Houston—Riverside Land Co., capital \$130,000, incorporated by C. M. Malone, E. L. Crane, and others.

Tex., Lubbock—Ed. F. Mann has closed deal for a client for 40 sections of Spade Ranch land and will develop for Bohemian colony.

Tex., Lubbock—Bush Brothers Land Co., capital \$25,000, incorporated by W. E. and F. H. Bush and others.

Tex., Midland—C. Rangh Cotton Lands Co., incorporated by J. B. Birge, M. C. Lindsey and others.

Tex., Robstown—B. B. Simmons of Mexia and M. G. Perry of Robstown, have acquired 5680 acres of land and will develop.

Tex., Tyler—Southland Nursery Co., capital \$30,000, incorporated by R. E. Fair, W. R. Hudnoll and others.

Va., Salem—Salem Home Building Corp., capital \$25,000, incorporated with Henry L. Francis, Pres.; Lee A. Denit, Sec.

W. Va., Charleston—Carr Realty Co., organized by R. S. Carr, W. D. Lewis, and others will develop 14 acre tract for subdivision; construct streets, etc.

W. Va., Huntington—Sydney Realty Co., capital \$10,000, incorporated by Walter H. Lewis, Samuel Sampson and others.

W. Va., Huntington—Fourth Avenue Improvement Co., capital \$100,000, incorporated by A. J. Groves, H. E. Love and others.

W. Va., Welch—Gray Realty Co., incorporated by Sam Polan, Moses Hyman and others.

W. Va., Wheeling—West Virginia State Fair Assn., Geo. W. Lutz, Pres., reported to expend \$175,000 for construction of amusement park; will enlarge swimming pool, install amusement devices, etc.

Lumber Enterprises

Ala., Lincoln—Lincoln Lumber Co. (lately noted incorporated) organized with B. F. Smith, Pres.-Mgr.; Cecil Duffee, Sec.; has completed plant consisting of 45x70 ft. shed, 20x64 ft. kiln and 14x36 ft. boiler house; daily output of lumber 8000 ft.

Ala., Loachapoka—Mill Lumber Co., capital \$40,000, incorporated by W. W. Hicks, F. C. Mills and others.

Ala., Sylacauga—Peace Lumber Co., Inc., chartered by M. W. and E. A. Peace and others.

Fla., Sarasota—Howard Lumber Co., capital \$200,000, incorporated with C. M. Howard, Pres.; C. J. Howard, Sec.

Fla., Tampa—North Home Lumber Co., capital \$1000,000, incorporated with J. R. Sparling, Pres.; Kenneth N. Brown, Sec.

Ky., Louisville—W. J. Hughes Co. will rebuild burned saw mill and lumber yard; estimated loss \$225,000.

Miss., Ellisville—Atlas Saw Mill Co., capital \$10,000, incorporated by Will Bynum, J. M. Arnold and Grover Anderson.

Miss., Tutwiler—City Lumber Co. incorporated by T. F. Gerrard, S. J. Simmons and others.

Miss., Walnut Grove—Tuscalometa Lumber Co., general office Meridian, Miss. (lately noted incorporated, capital \$50,000), organized with F. A. Kamper, Pres.; T. J. Childlow, Sec.-Mgr.; has plant, daily output 125,000 ft. lumber.

Mo., Jefferson City—Tebbetts Lumber Co., incorporated by Cliff G. Scruggs, J. W. Hord and others.

N. C., Greensboro—Dunlap Lumber Co., 814 Clima St. (lately noted incptd., capital \$50,000) organized with John H. Dunlap, Pres.; C. M. Andrews, Sec.-Mgr.; has plant and all necessary equipment except a 10-in. molder. (See Machinery Wanted—Molder.)

S. C., Union—Union Lumber Co., J. B. Smith, Pres., increased capital to \$30,000.

Tenn., Clarksville—Coulter Lumber Co. increased capital from \$50,000 to \$75,000.

Tenn., Memphis—G. C. Youngerman Lumber Co., capital \$25,000, incorporated by G. C. Youngerman, H. E. Graper and others.

Tex., Amarillo—W. M. Moore Lumber Co., capital \$30,000, incorporated by W. M. Moore, Lucille Moore and others.

Tex., Richardson—Walton Lumber Co., capital \$20,000, incorporated by Kit C. Floyd, C. M. Walton and others.

Metal-Working Plants

Ala., Birmingham—Dixie Metal Products Co., Inc., D. D. Bentley, Sales Mgr., will erect addition for modern enameling plant, equipped with baking and drying ovens, etc.

Va., Norfolk—Norfolk Blower & Pipe Corp., 22nd and Omohundro Ave., capital \$15,000, incorporated with C. T. Stotts, Pres.; H. M. Wise, Sec.-Treas.; has building, install shearing and rolling tools; daily capacity 20 tons; dust collecting system, stack and general metal work.

W. Va., Parkersburg—The Seward Wire Co., J. O. Seward, Pres., let contract to Plate & Vogel to erect 1-story brick addition, doubling the weaving capacity of plant.

Mining

Ala., Cook Springs—Cook Springs Sand Co., incorporated by M. J. Cook, Mrs. L. Cook and others.

D. C., Washington—The Ray-Pinal Co., capital \$1,000,000, incorporated by Hugh H. Hanger, Robert C. Handwerk and others.

Tex., Alamo—C and P Gray Granite Co., capital \$50,000, incorporated by M. M. Casady, W. D. Parkhill and others.

Miscellaneous Construction

Fla., Miami—City, F. H. Wharton, Mayor, let contract to Comer-Ebsary Co., of Miami, at \$70,000 to construct seawall of Bay Front Park, creosoted piling and timbers. (Lately noted.)

Fla., Miami—Details under Land Developments.

Fla., St. Petersburg—Harbor—Details under Water Works.

Ky., Louisville—Lock—U. S. Engineers will receive bids until April 25 for construction of lock No. 50 at Fords Ferry; estimated cost \$1,500,000.

Ky., Winchester—Incinerator—City Comsn. of Public Property contemplates construction of garbage incinerator and extension to city sewer system; to care for population of about 20,000; invites estimates of cost and plans.

Md., Frederick—Frederick County Farmers' Exchange, James H. Gambrill Jr., Gen. Mgr., will rebuild grain elevator, burned at loss of \$45,000.

Miss., Bay St. Louis—Seawall—City voted \$225,000 bonds for the construction of seawall on the beach front for the protection of Waveland. Address The Mayor.

Mo., St. Joseph—Swimming Pool—City let contract to Reinert Construction Co., St. Joseph, at \$38,492, to construct swimming pool on the athletic field at Noyes Blvd. (Lately noted.)

S. C., Charleston—Port Utilities Comsn., Room 712, Peoples Bank Bldg., let contract to the Austin Bridge Co., of Atlanta, Ga., to furnish, erect and paint structural steel for steel shed on Union pier; estimated cost \$40,800. (Bids lately noted.)

Tex., Dalhart—Elevator—W. S. Strader Grain Co., of Amarillo, Tex., will probably erect grain elevator of 15,000 to 25,000 bu. capacity and 60 x 100 ft. warehouse.

Tex., Manchester—Wharf—Southern Stevedoring Co. will erect 500 ft. wharf on the city's water front property; plans include complete system of warehouses and terminal facilities; estimated cost about \$300,000; J. C. McVea, City Engr.

Va., Norfolk—Incinerator—City, Walter H. Taylor, Director of Public Works, will receive bids until April 5 to furnish materials, labor and construct incinerator, located at or near Princess Ann Ave.

Tex., Orange—Wharf—Texas Creosoting Co. will erect 50x350-ft. wharf, designed to carry two trucks and storage space for 75,000 ties, making possible the loading and unloading of vessels with the locomotive cranes from or to cars; with 30 ft. channel to Gulf it will be possible to dock and unload large size steamers at company's own wharf; construction to begin immediately.

Miscellaneous Enterprises

Ala., Birmingham—National Dry Cleaning Co., capital \$15,000, incorporated by Hollis Armstrong, G. W. Shropshire and others.

Ala., Birmingham—Standard Printing Co., Inc., chartered by J. C. Stathan, Paul F. Watkins and others.

Ala., Birmingham—Southern Funeral Directing Co., capital \$100,000, incorporated by D. L. Edmundson, P. H. Plumlee and others.

Ala., Birmingham—City Lumber & Building Material Co., Inc., chartered by A. H. Mires, G. E. Coffman and others.

Ala., Birmingham—Birmingham Christian Harmony Musical Publishing Co. incorporated by W. H. Champion, Joseph Goodwin and A. A. Vine.

Ala., Foley—Alabama Dehydration Co., John Stelk and others will erect plant; soon ask for bids.

Ala., Mobile—Mobile Democrat Publishing Co., incorporated with Mrs. F. R. Durham, Pres.; F. H. Monahan, Sec.-Treas.

Ala., Montgomery—Montgomery Provision Co., C. H. Harkins, Local Mgr., has acquired the Montgomery plant of the Belle Meade Butter Co.; will operate.

Ala., Townley—Townley Theater Co., Inc., capital \$10,000, incorporated by C. B. Hendon, R. H. Shepherd and others.

Ala., Tuscaloosa—Perry's Bakery Co., Inc., capital \$20,000, incorporated by J. I. Perry, E. A. Townsend and others.

Ark., Bauxite—The Norton Co. let contract to the Arkansas Light & Power Co., of Pine Bluff, Ark., for power and installation of 250 h.p. motors; manufacture aluminum and chrysolon wheels, the high quality of grinding wheels.

Ark., Fayetteville—Cereal Products Co., P. M. Drake, Pres., increased capital from \$20,000 to \$40,000.

D. C., Washington—The Baker Co., incorporated by Charles S. Baker, Wilton J. Lambert, Munsey Building and others.

D. C., Washington—National Capital Radio Corp., incorporated by Thomas S. Fritch, 2123 O Ave., N. W., J. Gordon Yates and others.

D. C., Washington—L. M. Bowman & Co., incorporated by Louis M. Bowman, 1734 P St., N. W., L. R. Frazier and others.

Fla., Hollywood—The Hollywood Publishing Co., J. W. Young, Pres., will erect 2 story building at First Ave., 40 x 125 ft., of Italian architecture; concrete block construction finished in grey stucco with ornamental red tiling; estimated cost \$25,000; will equip with Miehle book and newspaper press, Kelley automatic job press, Chandler & Price press, Cleveland folder, 2 linotypes, power cutters and switches; approximate cost \$35,000.

Fla., Leesburg—Inland Transit Co., capital \$75,000, incorporated with Frank J. Peterson, Pres.; H. L. Wiley, Sec.

Fla., Palatka—Palatka Moss Products Corp., organized by Northern capitalist; reported to have acquired site on 8th St., between Bronson and Dunham St., to erect two buildings, steel and concrete construction; install machinery for the curing and baling of moss; weekly capacity about 5 carloads.

Fla., St. Petersburg—Eadon Builders, Inc., capital \$25,000, incorporated with W. J. Longman, Pres.; W. R. Streeter, Sec.

Fla., Pensacola—Naval Stores—The Lurton Co., capital \$500,000, incorporated with M. A. Lurton, Pres.; W. S. Lurton, Sec.

Fla., St. Petersburg—West Coast Paving Co., capital \$60,000, incorporated by E. M. Miller, Pres.; W. L. Cobb, Sec.

Fla., Tampa—Building Materials—Roux-Askew-Dantzler, Inc., capital \$100,000, chartered with E. T. Roux, Pres.; H. L. Askew, Sec.

Fla., Winter Park—Folger Hotel Co., capital \$75,000, incorporated with Clifford Folger, Pres.; Fred H. Folger, Sec.

Ga., Augusta—H. H. Claussen Co., 1589 Broad St., let contract to Claussen & Lawrence, Augusta, to erect addition to bakery, will double present size; will install the following equipment, 3 rotary cake ovens, high speed mixer with capacity of 5 bbls. flour, automatic conveyors, and refrigerator and cold storage plant and a laboratory, double capacity of present plant; estimated cost \$20,000.

Ky., Covington—Pike Street Monument Works, capital \$20,000, incorporated by R. L. Zimmerman, J. J. Winchester and others.

Ky., Germantown—Germantown Supply Co., incorporated by H. F. Fowler, E. B. Dillon and others.

Ky., Hazard—Hazard Laundry Co., increased capital from \$15,000 to \$30,000.

Ky., Lexington—Red Star Transportation Co., capital \$15,000, incorporated by M. F. Jelley, D. R. Burris and others.

Ky., Louisville—Hardy Construction Co., capital \$10,000, incorporated by Wm. J. and Marshall E. Hardy and others.

Ky., Louisville—Old Trust Paint Co., in-

corporated by Clifton Rodas, Lyman C. Martin and others.

Ky., Louisville—Mutual Manufacturing Co., incorporated by Wallace A. McKay, Thomas W. Scott and others.

Ky., Williamsburg—Farmers Supply Co., capital \$10,000, incorporated by Ezra Rains, Isham Lawson and others.

La., Lake Charles—Brownie Advertising Co., capital \$10,000, incorporated with M. L. Hurlburt, Pres.; Geo. T. White, Sec.

La., Monroe—Twin City Printing Co., capital \$20,000, incorporated with H. E. Watson, Pres.; J. R. Burns, Sec.

Md., Baltimore—Standard Sanitary Manufacturing Co., Pittsburgh, Pa., will erect six additional buildings on Fifth street as a part of its construction plans; plants include 2 enamel shop buildings, 2 clearing houses, 1 bush house and saw mill; concrete, steel and brick construction; steel sash; asphalt roof excepting clearing houses to be corrugated iron; estimated cost \$300,000; B. A. Groah Construction Co., Contr., 847 North St., Pittsburgh, Pa.

Md., Baltimore—The Locke Insulator Corp., Charles and Cromwell Sts., has awarded contract to J. Henry Miller, Inc., Franklin and Eutaw Sts., for the erection of two 1-story brick buildings, 41x50x15 ft., and one 380x80x15-ft.; will install a continuous tunnel kiln; W. S. Austin, Engr., Maryland Trust Bldg.; most of equipment purchased.

Md., Baltimore—New York Beverage Co., Inc., 206 Light St., capital \$25,000, incorporated by Wm. G. Dietrich, Joseph J. Pear and others.

Md., Baltimore—Stieff Co., 17 N. Liberty St., will erect 1 story, 152x82 ft., factory building on Cedar Ave.; brick with limestone trimmings; constructed so that an additional story can be added; will install new equipment; total expenditure estimated at \$200,000; plans by G. L. Blome and contract let to L. L. Chambers, Thirty-sixth and Roland Ave., Baltimore; silversmiths.

Miss., Gloster—Adams Brothers Co., will enlarge present plant and erect new pickle factory.

Mo., Joplin—Liberty Building Co., incorporated by Hadley Tatum, J. Grigg and others.

Mo., Kansas City—Quarry Machinery & Engineering Co., incorporated by L. R. Pearis, C. C. Stentz and others.

Mo., Kansas City—Hale Paper Co., capital \$10,000, incorporated by R. F. Wood, Virgil A. Hale, and others.

Mo., Kansas City—Kansas City Roofing Corp., chartered by W. Ray Walker, A. D. Cain and others.

Mo., Kansas City—List Construction Co., capital \$100,000, incorporated by W. M. List, F. P. Kilty and others.

Mo., Lockwood—Hubert A. Nieman will erect greenhouse; one building 100x25 ft. with gable on each end with seven ft. walls, 6 ft. of glass in each wall; hot water heat; work shop 25x25 ft.; will open building proposals May 1st; invites bids on glass, heating, etc. (Lately noted.) See Machinery Wanted—Heating Plant; Glass; Building Materials.

Mo., St. Louis—Nucleus Publishing Co. incorporated by H. V. Hoyer, 1825 Arsenal St.; W. S. Perutz and others.

Mo., St. Louis—Busby Hotel and Theatre Co. incorporated by J. E. Hussey, 2201 N. Broadway; C. R. Huber, 2118 Nebraska St., and others.

Mo., St. Louis—Rotary Engineering Co., capital \$10,000, incorporated by C. P. Vessels, N. Eckerle and others.

Mo., St. Louis—Mermod-Hill Sporting Goods Co., increased capital from \$5000 to \$12,000.

N. C., Castle Hayne—J. Weller Pickle Co., Oak Harbor, Ohio, lately noted to establish pickle plant, has building and will remodel for salting station.

N. C., Winston-Salem—Carolina Retailers' Publisher Co., capital \$10,000, incorporated by C. E. Smith, E. W. Price and others; all of Canton, N. C.

N. C., Winston-Salem—Modern Homes Plumbing Co., capital \$25,000, incorporated by W. E. Burke, J. H. Maynard and others.

Okla., Apperson—O'Dell & Co., Inc., capital \$25,000, incorporated by Arthur O'Dell, E. W. Holland and others all of Drumright, Okla.

Okla., Bartlettville—Crystal Creamery Co., capital \$25,000, incorporated by F. H. Granner, John M. Holliman and others.

Okla., Chandler—Matthews Construction Co., capital \$50,000, incorporated by V. O. Matthews, C. H. Washan and others.

Okla., Cherokee—Farmers' Elevator Co., capital \$20,000, incorporated by Pete Stine, A. T. Bernard and others.

Okla., Lone Wolf—Coon Hardware Co., incorporated by O. O. Coon, Lone Wolf; A. A. and O. C. Coon of Mountain View.

Okla., Muskogee—Elliott Laundry Co., incorporated by W. M. Elliott, M. Johnson and others.

Okla., Nowata—City let contract at \$10,450 for 6 cylinder, 125 h.p. motor, chemical, hose and motor pumping fire engine. Address The Mayor. (Lately noted.)

Okla., Oklahoma City—Metal Coating Co., capital \$10,000, incorporated by Geo. T. Barr, E. E. Gains and others.

Okla., Tulsa—Slater Brothers Corp., capital \$500,000, incorporated by Remington Rogers, M. L. Jones and others.

Okla., Tulsa—General Advertising Bureau, capital \$9000, incorporated by Chas. W. Collins, L. M. Breed and others.

Okla., Vinita—The Sanders-Ridgeway Co., increased capital from \$100,000 to \$150,000.

S. C., Charleston—Ashley Ice Cream Co. increased capital from \$25,000 to \$50,000.

S. C., Columbia—Fire Apparatus—City opens bids April 24 for two additional pieces of fire apparatus. Address Mayor Coleman.

S. C., Easley—Carolina Times Publishing Co., Inc., 14 Pendleton St., lately noted incorporated with \$10,000 capital, organized with J. A. Pickens, Pres.; will erect publishing plant 25x80 ft.; install \$15,000 equipment.

S. C., Lamar—Sentinel Publishing Co. incorporated with D. C. Reynolds, Pres.; J. Wesley Beasley, Sec.

S. C., Sumter—Gravity Tank Co., capital \$10,000, incorporated with B. D. Hodges, Pres.; Raymond Schwartz, Treas.

Tenn., Bristol—Bunn Rat Trap Corp., capital \$25,000, incorporated by O. F. Bunn, Eugene Lynch and others.

Tenn., Chattanooga—Sanitary Serviette Co., capital \$50,000, incorporated by Hollis M. Caldwell, E. P. Leonard and others.

Tenn., Columbia—Maury County Co-Operative Creamery Assn. contemplates installation of modern refrigeration plant and other improvements.

Tenn., Jackson—Velvet Products Co., capital \$50,000, incorporated by D. V. Whitelaw George C. Wilkerson and others.

Tenn., Johnson City—News Publishing Co., capital \$85,000, incorporated by Fhad A. Cox, Hugh E. Morrison and others.

Tenn., Knoxville—Henry M. Moses Electric Co., increase capital from \$5000 to \$15,000.

Tenn., Knoxville—Foster-Payne Co., capital \$25,000, incorporated by Hoyte N. Payne, I. C. Foster and others.

Tenn., Memphis—Tennessee Candy Manufacturing Co., 92 W. Iowa St., capital \$20,000, incorporated by Ed. T. McCaney, Louis B. James and others.

Tenn., Memphis—Hypo Molasses Hay Co., 983 Shrine Bldg., capital \$50,000, incorporated by C. A. Gerber, W. E. Lundey and others; manufacture feeds etc.

Tenn., Memphis—Gregory Bus Line, capital \$100,000, incorporated by H. M. Gregory, C. D. Rye and others.

Tenn., Memphis—Ramier-Hall Wax Paper Co., 1200 Shrine Bldg., capital \$50,000, incorporated by J. F. Ramier, R. W. Hall and others.

Tenn., Memphis—Memphis Motion Pictures Corp., capital \$100,000, incorporated by Geo. Hively, Howard Webster and others.

Tenn., Memphis—Standard Chemical Products Co., 115 Concord Ave., capital \$104,000, incorporated by David D. Lee, Van W. Rogers and others.

Tenn., Nashville—Cumberland Presbyterian Board of Publication, J. W. Clark, Pres., Loudon, Tenn., will erect two story, fireproof building; 62½x53 ft.; concrete floors; fireproof; cost \$25,000; J. M. Moore, Contr. (Lately noted.)

Tenn., Nashville—Mohrlite Manufacturing Co., capital \$30,000, incorporated by M. P. O'Connor, J. O. Mann and others.

Tex., Cleburne—Builders Supply Co., incorporated by D. F. Bellenger, R. O. Whitaker and others.

Tex., Corpus Christi—Corpus Christi Cotton Cloth Co., incorporated, Thomas Bell, E. B. Edison and others.

Tex., Dallas—Lone Star Heating & Ventilating Co. incorporated by A. S. Foy, Henry Jackson and others.

Tex., Dallas—Lee Notion & Novelty Co., capital \$10,000, incorporated by J. C. Lee, B. D. Owlin and others.

Tex., Dallas—Eagle Supply Corp., capital \$20,000, incorporated by B. Benno, John Thomas, Jr., and others; manufacture shirts and aprons.

Tex., Elgin—Baker Gas Saver Co., incorporated by W. A. Baker, W. C. Rivers and others.

Tex., Farwell—Farmers Grain & Warehouse Co., incorporated by Lee H. Duderth, J. O. Ford and others.

Tex., Fort Worth—Globe Live Stock Co., increased capital from \$10,000 to \$60,000.

Tex., Fort Worth—Alemite Lubricator Co., capital \$20,000, incorporated by James H. Dale, Emily M. Brashear and others.

Tex., Fort Worth—Everts Angle Razor Corporation, lately noted incorporated with \$200,000 capital, S. H. Jackson, Pres., has 2 story, brick and concrete building at Broadway and Jennings Ave. for the manufacture of safety razors will install equipment for the manufacture of 2000 safety razors daily. (See Machinery Wanted—Safety Razor Manufacturing Equipment.)

Tex., Fort Worth—Federal Supply Co., capital \$125,000, incorporated by A. B. Ryan, A. T. Donnelly and others; manufacture oil well supplies.

Tex., Fort Worth—Orange Crush Bottling & Electrified Water Co., capital \$20,000, incorporated by T. B. Hoffer, H. L. Lane and others.

Tex., Gonzales—Gonzales Trading Co., capital \$75,000, incorporated by Dave Stahl, Julia Vrazel and others.

Tex., Grand Prairie—Mohawk Products Co., capital \$10,000, incorporated by L. A. Lang, B. V. Lang and others.

Tex., Hillsboro—Texas Novelty Advertising Co., capital \$130,000, incorporated by L. J. Thompson, D. W. Campbell and others.

Tex., Houston—Browne & Stoy, Inc., increased capital from \$20,000 to \$50,000.

Tex., Houston—R. L. Autrey will erect 2 story reinforced concrete laundry building on Eighth street near Washington Ave.; cost \$35,000.

Tex., Houston—Nu-Grape Bottling Co., capital \$30,000, incorporated by W. C. Hathaway, John T. Conner and others.

Tex., Houston—Logan Candy Co., 2102 S. North Main St., increased capital from \$30,000 to \$50,000.

Tex., Houston—Barringer Norton Co., increased capital from \$30,000 to \$50,000.

Tex., LaGrange—Farmers' Publishing Co. incorporated by Gust Hartmann, M. T. Morris and others.

Tex., Lamesa—Monday Hardware Co., incorporated by J. P. and S. A. Monday and others.

Tex., Lufkin—Easte Syrup Corp., reorganized by K. W. Deuman, E. L. Kurth, and J. H. Gibson.

Tex., Magnolia Park—Magnolia Park Gas Stove & Plumbing Co., incorporated by E. E. Reed, Ed. Conner and others.

Tex., Mexia—Baxter Candy Co., incorporated by J. E. Baxter, W. B. Kendricks and others.

Tex., Mexia—Texas Glove Co., capital \$10,000, incorporated with S. C. Yowell, Pres.; R. F. Rabb, Sec.-Treas.; will establish glove plant with daily output 150 doz. prs.

Tex., Paris—Self-Hoover Co., capital \$25,000, incorporated by E. V. Self, E. B. Hoover and others.

Tex., San Angelo—Sherwood Livestock Co., capital \$10,000, incorporated by A. B. and Dave Sherwood and others.

Tex., San Leon—Adams Preserving Co., capital \$20,000, incorporated by Charles A. Adams, Charles J. Blum and others; will erect fig preserving plant with daily capacity of 15,000 lbs. figs.

Tex., San Antonio—Krueger Machinery Co., increased capital from \$250,000 to \$300,000.

Va., Hopewell—Fire Fighting Equipment—City will vote on \$25,000 bonds for purchasing fire department equipment, gasoline standby pumps and hook and ladder service truck. Address Mrs. Ollie L. Thurston, Chrmn. Common Council of City of Hopewell.

Va., Roanoke—New Hotel Corp., capital \$400,000, incorporated with W. W. Boxley, Pres.; Frank S. Cooper, Sec.

Va., Winchester—Old Virginia Packing Co., main office Front Royal, Va., capital \$500,000, organized by J. N. Major and others; manufacture food products.

W. Va., Clarksburg—West Virginia Macaroni Co., A. W. Robertson, Pres., contemplates additional improvements.

W. Va., Clarksburg—Mesic Packing & Provision Co., capital \$50,000, incorporated by Thomas Angotti, Luigi Romano and others.

W. Va., Martinsburg—Martinsburg Community Hotel Co., capital \$300,000, incorporated by A. R. Emmett, B. A. Poland and others.

W. Va., Weston—Weston Chero Cola Bottling Co., incorporated by Wade H. Norris, of Jane Lew, W. Va.; Homer Thompson and B. F. Cayton, Weston.

W. Va., Wheeling—Stone & Thomas increased capital from \$800,000 to \$1,200,000.

W. Va., Wheeling—H. E. Caldaugh Paint & Glass Co., capital \$50,000, H. E. Caldaugh, B. S. Honecker and others.

W. Va., Yellow Springs—Cline Bros. increased capital from \$10,000 to \$25,000.

Motor Cars, Garages, Tires, Etc.

Ala., Birmingham—Stagg Auto Repair & Accessories Co. incorporated by O. C. Nichols, O. M. Stagg and others.

Ala., Camden—Hawthorne Service Station, capital \$15,000, incorporated by A. J. and R. L. Hawthorne and others.

Ark., Batesville—Magnolia Petroleum Co., E. R. Kessee, local manager, has acquired site corner of South and Broad street; will erect garage and filling station; estimated cost \$25,000.

Ark., Little Rock—The Wright-Mann Motor Co. let contract to W. H. Lumberton to erect building at 3rd and Poplar Sts.; estimated cost \$12,000.

Fla., Jacksonville—Ford Motor Co., Detroit, reported let contract to Irwin and Leighton, 126 N. Twelfth St., Philadelphia, Pa., to erect 2-story power house and 1-story oil storage house for the Company's assembly plant; concrete, brick and stone construction; estimated cost about \$80,000; both buildings located on east side of river between 8th and Wambolt St.

Fla., Jacksonville—W. H. Thompson will erect 2 story brick garage building at Adams St., cost \$12,000; H. E. Bunall Contr.

Fla., Miami—Garage—Beverly Peacock, N. Miami Ave., will erect public garage building, concrete block construction; cost \$1500.

Fla., Miami—Garage—T. B. McGahey, 2100 N. Miami Ave., will erect public garage building, concrete block construction; cost \$18,000.

Fla., Milton—Cooper Harrison Chevrolet Motor Co., capital \$75,000, incorporated with W. W. Harrison, Pres.; F. M. Cooper Sec.

Fla., St. Petersburg—Filling Station—Standard Oil Co. purchased site corner 58th St. and Central Ave.; will erect 98x100-ft. filling station; construction to begin immediately.

Fla., Tampa—Tampa Appleby Plan Motor-mart, capital \$50,000, incorporated with M. J. Hulse, Pres.; A. C. Johnson, Sec.

Fla., West Palm Beach—Automobiles, etc.—Bryant & Gray, Inc., capital \$25,000, incorporated with Herman Pitt Gray, Pres.; Jos. Bryant, Sec.

Ga., Atlanta—Bowling H. Jones, Pres., of The Cotton Warehouses, reported to erect 5 story automobile hotel; estimated cost \$600,000.

Ky., Ashland—Filling Station—Hugh Morehead of Catlettsburg, Ky., has acquired site corner Twenty-first and Winchester Ave., will erect gasoline filling station and tire shop.

Ky., Louisville—Ford Motor Co., Detroit, Mich., reported to have acquired about 47½ acres land.

Ky., Whitesburg—Miners Motor Co., will open bids April 10 for the erection of garage building.

La., Lake Charles—Automobiles—Krause-Foster Co., Inc., Rudolph E. Krause, Pres., increased capital from \$50,000 to \$250,000.

La., New Orleans—Service Station—The White Co., W. C. White, Pres., Cleveland, Ohio, let contract to Lionel Favrot, New Orleans, to erect 2-story, 100x200 ft., fireproof building at 424 Girod St.; brick, concrete and steel construction; estimated cost \$45,000; equipment in present building to be moved in-

to new plant; Moise Goldstein, Archt. (Late-ly noted.)

Md., Baltimore—Garage—Robert Seff, 231 Courtland St., will erect 200x200-ft. building on 25th St., 1-story with sufficient space for probable future expansion of about 20,000 sq. ft.; brick, steel sash, concrete floors, slag roof; estimated cost of plant and site about \$100,000; bids open for equipment; to be occupied by the White Motor Truck Co.

Md., Franklinville—Oak Tire & Rubber Co., capital \$1,000,000, organized with Frank Law, Pres.; John M. Bellamy, Treas., Govans, Md. and Wm. Rynehart, Sec., 2936 Clifton Ave., Walbrook; reported to have leased with option of purchase, building from Mount Vernon-Woodberry Mills; to manufacture automobile tubes and tires.

Miss., Collins—Smith Motor Co., Fred W. Smith, Propr. let contract to S. Mosengale, of Collins to erect 60 x 110-ft. garage building, brick and corrugated iron construction; concrete floors; composition roof; will install motor driven machinery. (Late-ly noted.)

Miss., Ripley—The Dixon Motor Co. will erect 2-story brick garage building, corner of Court Square.

Miss., Starkville—Filling Station—Reynolds & Smith let contract to G. H. Lanier to erect 25 x 50-ft. filling station, concrete construction. (Late-ly noted.)

Mo., Independence—Garage—L. E. Morrow will erect brick garage building at 127 E. Lexington St.

Mo., Kansas City—Greenlease Motors, capital \$100,000, incorporated by R. C. Greenlease, E. M. Lied and others.

Mo., Kansas City—R and S Sales Corp., chartered by Sarah Sprague, Charles W. Reid and others.

Mo., Kansas City—Bradley Saunders, Inc., capital \$10,000, chartered by B. J. Saunders, Jr., 613 West 61st St.; E. H. Chapman, 500 Rialto Bldg. and others.

Mo., St. Louis—Garage—C. Mahrman, 6432 Westminster St., let contract to Say Brothers Construction Co., 2034 Olive St., to erect 1-story, 55x100-ft. garage building, at 1928 Prairie St., estimated cost \$12,000.

Mo., St. Louis—Automobile Accessories—Abeles Oil Filter Co., capital \$20,000, incorporated by John T. Abeles, Bonds Rialto Bldg., L. L. Higgins and others.

Mo., St. Louis—Monarch Sales and Equipment Co., capital \$50,000, incorporated by F. H. Schaub, 1819a Thurman St.; A. A. Goebel and others.

Mo., St. Louis—Automobile Accessories—Trova Motor Products Co., capital \$20,000 incorporated by O. Trova, G. Adams and others.

N. C., Asheville—Automotive Sales, Inc., of North Carolina, capital \$100,000, incorporated with Charles W. Leland, Pres.; Mrs. Lainsy, Sec.-Treas.; let contract to Tench C. Cox, to erect building corner Cox and Phillip St.; 2 story, 125 x 160-ft.; filling station will be placed at corner of building and in addition there will be storage space for 100 cars; estimated cost \$80,000; will start work as soon as plans are completed.

N. C., Winston-Salem—Jones Oil Co., will erect filling station corner Main and 2nd St., brick and stucco construction, with tile roof; will have three driveways, three gasoline and three oil pumps, etc., estimated cost \$7000.

Okla., Ardmore—The Paul Rubber Co., M. W. McConnell, Pres., Charlotte, N. C., has acquired the Ardmore-Akron Tire Co., will operate, continuing existing business.

Okla., Oklahoma City—Eagleback Product

Sales Co., capital \$10,000, incorporated by R. L. Wharton, D. E. Hodges and others.

S. C., Columbia—Evans Motor Co., Inc., increased capital from \$10,000 to \$25,000.

S. C., Georgetown—Central Service Station, capital \$10,000, incorporated with Geo. D. Anderson, Sr., Pres.; Geo. D. Anderson, Jr., Sec.

S. C., Hemmingway—Hyman Motor Co., incorporated with L. S. Hyman, Pres.-Treas.

S. C., Pickens—Blue Ridge Motor Co., capital \$10,000, incorporated with J. H. Tedard, Pres.; W. L. Martens, Treas.

S. C., St. Matthews—Calhoun Motor Co., capital \$50,000, incorporated with I. S. Covin, Pres.; J. Pope Matthews, Sec.

Tenn., Knoxville—A. E. Gredig, Archt., let contract to J. A. Cox & Sons to erect 2 story 25 x 82-ft. brick building at 9 Emory Place, hardwood floors; install heating system; to be occupied by the Service Auto Parts Co.

Tex., Dallas—Dallas Service Station increased capital from \$20,000 to \$50,000.

Tex., Floydada—Filling Station—J. C. and W. C. Ginn will erect brick and tile filling station; construction begun.

Tex., Laredo—Garage—J. R. Moore will erect garage building; Clarence Jefferies, of Laredo, lowest bidder at \$35,300; Adams & Adams, Archt., Gibbs Bldg., San Antonio, Tex.

Tex., Lubbock—Lub-Tex Motor Co., Newman F. Payne, Mgr., will erect 2 story fire-installing elevator; hot and cold water with proof building corner Broadway and Ave H; special steam engine washer, vacuum cleaners, etc.

Tex., Lubbock—Service Station—American Refining Co., W. F. Watts, representative will establish service station, estimated cost \$30,000.

Tex., Navasota—Filling Station—Magnolia Petroleum Co., let contract to W. D. Dixon, Navasota, to erect drive in filling station corner LaSalle and Holland St.

Tex., Yoakum—Swenson Motor Co., will erect 1 story building, concrete construction; estimated cost \$15,000; have begun work on foundation.

Va., Emporia—Greensville Motor Co., capital \$50,000, incorporated with J. M. Jordan, Pres.; W. R. Squire, Sec.

Va., Lexington—Chaufferless Taxi Cab Co., Inc., N. O. Moses, Pres., let contract to Pruett & Coffee to erect 2 story, 50x100-ft. building for storage garage; concrete and brick construction, steel trusses and metal roof; estimated cost \$13,000. (Lately noted inceptd., capital \$15,000.)

W. Va., Alderson—Alderson Garage Co., capital \$30,000, incorporated by W. H. Sellers, of Elkins, W. Va.; H. B. Rowe and W. W. Henley, both Alderson.

W. Va., Clarksburg—Mountaineer Motor Co., capital \$50,000, incorporated by H. P. Sturn, H. W. Williams and others.

W. Va., Elkins—Automobile Accessories—Valley Supply Co., capital \$200,000, incorporated by Vernon B. Harris, W. N. Fitzwater and others.

W. Va., Wellsburg—Wellsburg Motor Car Co., capital \$50,000, incorporated by B. H. Buskirk, J. F. Thompson and others.

Railways

N. C., Robbinsville—Southern Railway, it is reported, contemplates construction of a branch from Topton to Robbinsville, about 10 mi. T. H. Gatlin, Washington, D. C., is Ch. Engr. of Constr.

Tex., Austin—W. B. Dunlap, of Beaumont, and associates are reported to have organized the Texas Rapid Transit Company to build an interurban railway from Austin to San Antonio, Tex., about 85 mi. via Lockhart and Seguin, Tex.; also branches to San Marcos, New Braunfels and other points. Construction to begin soon at San Antonio.

Railway Shops, Terminals, Round-houses, Etc.

Ga., Dublin—Wrightsville & Tennille R. Co., Charles Molony, Pres., Tennille, Ga., reported to erect shops; plans call for the following: locomotive, machine, blacksmith, carpenter shops, paint, oil stores etc.; estimated cost \$75,000.

Ga., Millen—The Central of Georgia Ry. Co., W. H. Supt., Savannah, Ga. plans erecting modern coal station, with capacity of about 500 tons and with storage capacity of several thousand tons; will be of concrete construction and electrically equipped.

La., Monroe—Missouri Pacific Ry. Co., E. A. Hadley, Chief Engr., St. Louis, Mo., will rebuild shops, to be completed by July 1. (Lately noted burned at loss of \$100,000.)

Va., Clifton Forge—The Chesapeake and Ohio Ry. Co., Jno. C. Dice, Asst. to V. P., Richmond, Va., let contract to Strait Scale Co., Kansas City, Kan. for two 150 ton scales for the new yard; cost approximately \$25,000.

Road and Street Construction

Ala., Anniston—City let contract to W. A. McArthur to resurface Green St. below City Hall. Address The Mayor.

Ala., Anniston—City will receive bids until April 10 to improve certain streets with 2-in. asphaltic concrete paving on 5-in. Puzolian cement concrete base; Improvement Ord. No. 201, \$10,727 sq. yds.; Improvement Ord. No. 202, 13,230 sq. yds.; J. L. Wickle, Mayor.

Ala., Lanett—Lanett Cotton Mills plan grading and laying concrete curb and gutter in village; E. S. Draper, Landscape Archt. and Engr., 101 Mariette Bldg., Atlanta, Ga.

Ala., Shawmut—Shawmut Mills plans grading, laying concrete curb and gutter in village; E. S. Draper, Landscape Archt. and Engr., 101 Mariette Bldg., Atlanta.

Ala., Tuscaloosa—Tuscaloosa County Board of Revenue plans building 4 concrete roads as follows: Tuscaloosa-Birmingham road from 11 mi. post to Jefferson County line; Tuscaloosa-Greensboro road from north end of Little Sandy Bridge to Hale County line; Tuscaloosa-Eutaw road, from Tuscaloosa to Green County line; Tuscaloosa-Columbus road from Northport to Pickens County line; will vote May 13 on \$600,000 bonds.

Arkansas—State Highway Dept., Little Rock, Ark., plans improving sections of roads between Little Rock and Memphis as follows: From Bentley to Cache and from Wheatley to Palestine; also plans improving highway between Jonesboro and Harrisburg; R. C. Limerick, State Highway Engr.

Ark., Hot Springs—City received low bid from T. A. Rosamond, Hot Springs, at \$9702.85, to pave with concrete 3rd St. between Ouachita and Hobson.

Ark., Little Rock—State Highway Dept. will receive bids until April 24 for 43 mi. 18-ft. concrete pavement on Little Rock-Hot Springs Highway from Pulaski-Saline County line to Hot Springs; R. C. Limerick, State Highway Engr.

Fla., Bartow—Polk County will receive bids until April 8 for 1.3 mi. hard surfaced road, known as Hopewell-Hillsborough con-

nection, connecting Mulberry-Coronet intersection to Hillsborough County line; 4-in. Bartow clay foundation; limestone 3-in. thick, top surfacing of oil, asphalt and crushed stone ¾-in. thick to wearing surface.

Fla., Fort Meade—City plans 4 mi. street paving; voted \$23,000 bonds. Address The Mayor.

Fla., Leesburg—City Comm. will receive bids until April 14 for 6000 lin. ft. sidewalk, 4-in. thick; 5-ft. wide; 2500 cu. yd. fill; plans, etc. from City Clk.; W. A. MacKenzie, Mayor-Commr.

Fla., Miami—Details under Land Developments.

Fla., Milton—City will receive bids soon to pave several streets as follows: Canal, Oak and Henry Sts. from Court House Square to L. & N. Depot; Berry, from Willing to city limits near cemetery; Alabama and Stewart Sts. leading out of city north; 5 mi. Brewton-Milton road from either Alabama or Stewart St. Address The Mayor.

Fla., Oldsmar—Erler Corporation, 905 Citizens Bank Bldg., Tampa, has contract at \$250,000 for following improvements: Paving Lafayette Blvd., completing Park Blvd. and paying portion of Shore Drive; construct part of yacht basin; lay cement sidewalks, curbs and gutters; parking and landscaping of boulevards.

Fla., Pablo Beach—Duval County Commrs. let contract to C. F. Lytle Construction Co., Jacksonville, at \$45,000, for 1½ mi. concrete on 3rd Ave. from Atlantic Blvd., at Neptune Beach, to city limits of Pablo Beach.

Fla., Pensacola—Escambia County let contract to Speed-Parker, Inc., Louisville, Ky., and Pensacola, Fla., at \$186,936, for 6 mi. 18-ft. concrete road from Roberts, 10 mi. north of Pensacola, and extending 1½-mi. north of Cottage Hill railroad station.

Fla., Seabreeze—City plans improving ocean front from Auditorium Blvd. to Clarendon Hotel. Address The Mayor.

Fla., Tampa—Details under Land Developments.

Fla., Tavares—State Road Dept., Tallahassee, Fla., will receive bids until April 18 to grade, construct drainage structures, and hard surface 10,529 mi. Road No. 2, Lake County, Federal Aid Project 44; plain or reinforced concrete, asphaltic concrete, sheet asphalt on either concrete or rock base, vitrified brick and bituminous macadam on rock base; all black top pavements with or without flush curb; plans, etc. from Div. Engr. or on file; J. L. Cresap, State Highway Engr.

Georgia—State Highway Dept., Atlanta, plans 35 mi. highway through National Forest Reserve, in North Georgia; running through Union, Fannin and Lumpkin Counties; \$65,000 available; \$40,000 initial federal expenditure has been authorized; three counties, through which road passes, and State Highway Dept. will furnish \$25,000.

Ga., Atlanta—City let contracts for following street paving: Case & Cothran Co., for extra vibrolithic paving on Hayden St. from Luckie to Simpson; Davis Construction Co., to pave East Fair, from Ewtoria to Moreland. Address The Mayor.

Ga., Atlanta—City let contracts for paving various streets as follows: To Pittman Construction Co., repave Broad, from Mitchell to Marietta, lay extra vibrolithic paving on Kelly from Glenwood to Fair; McDougal Construction Co., willite on Magnolia from Marietta to David; Rawson from Capitol to South Pryor; Alexander from Williams to Luckie; Meador Construction Co., vibro-

lithic concrete on East Cain, from Butler to Jackson; N. Warren, from Boulevard Drive to Trotti; Brittain Construction Co., extra vibrolithic concrete on Boulevard Circle, from Boulevard to Greenwood; Hall from Highlands to Maryland; May, 2 blocks on Flat Shoals. Address The Mayor.

Ga., Atlanta—Fulton County Board of Commrs., Public Works Comm., plans paving Highland Drive in Peachtree Highlands section.

Ga., Elberton—Details under Water Works.

Ky., Hazard—Perry County will let contract soon for 5 mi. Kentucky-Virginia highway. Address Perry County Fiscal Court.

Ky., Madisonville—State Highway Comm., Frankfort, Ky., plans surfacing with concrete Dixie Bee line from Ohio River to Tennessee line.

Ky., Stanford—State Highway Comm., Frankfort, Ky., will receive bids until April 22 to improve 6.5 mi. Somerset-Stanford road, from Waynesburg north, State Project No. 22, Sec. G; 13,000 cu. yd. excavation; 16,250 tons crushed stone; plans, etc. from Joe S. Boggs, State Highway Engr.

La., Bastrop—J. H. Hall, Bastrop, was awarded contract at 22½ cents per sq. ft. for 4 mi. concrete sidewalks.

La., Homer—Clalborne Parish plans 90 mi. hard surfaced roads; will vote April 25 on \$800,000 bonds. Address Parish Police Jury. (Lately noted to vote April 19.)

La., Lafayette—City will let contract soon to pave public square. Address The Mayor.

La., Rayville—Town Board plans expending \$75,000 to drain, curb, gutter, and gravel leading streets.

La., Saint Bernard—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, will receive bids until April 8 to lay 39,500 sq. yd. single surface treatment on 3.22 mi. New Orleans-Pointe-a-la-Hache Highway from Orleans-St. Bernard Parish line to Louisiana Southern Ry. crossing, Saint Bernard, State Project 54-M; plans, etc. on file; J. M. Fourmy, State Highway Engr.

La., Shreveport—Caddo Parish let contract to Houston Construction Co., Houston, Tex., at \$275,000 for 10¼ mi. concrete; Bates section, 9-in., 6-in., 9-in., 180 ft. wide, north and south of Shreveport; 5 mi. reassigned to McGuire & Cavender, Shreveport.

Md., Baltimore—Board of Awards will receive bids until April 9 to grade, curb and pave with sheet asphalt on concrete base and cement concrete streets in Contracts Nos. 251-OA, and 253-OANA; 11,400 sq. yd. sheet asphalt, Cont. No. 251-OA; 12,625 sq. yd. cement concrete, Cont. No. 253-OANA; plans, etc. from Paving Comm., R. Keith Compton, Chmn., 214 E. Lexington St.; Mayor Howard W. Jackson, Pres. Board of Awards.

Miss., Ecu—Town plans expending \$10,000 for 4 mi. 1:2:4 concrete sidewalks; will sell bonds; T. M. Wingo, Mayor. (See Machinery Wanted—Culverts.)

Missouri—State Highway Dept., Jefferson City received low bids for 28 road projects as follows. Scott County, 3.771 mi. 16-ft. gravel road from Belton to Charleston, Energy Coal & Supply Co., Poplar Bluff, at \$34,202; Lincoln County, 2.670 mi. 16-ft. gravel from Troy west, Harlan Bros., Troy, at \$14,401.24; Sullivan County, 2.063 mi. 16-ft. gravel from Trenton to Kirksville, John L. Simmons, La Plata, at \$8000.78; Saline County, .720 mi. 26-ft. graded earth, from Marshall to Miami, Pittsburg Des Moines Steel Co., Des Moines, Iowa, at \$17,844.41; Montgomery

County, 3.8 mi. 30-ft. graded earth, from Montgomery City north and south, F. A. Stoner, Chamolis, Mo., at \$15,827.41. Nodaway County, 2 sections from Maryville south; 4.890 mi. 18-ft. concrete, C. H. Atkinson Paving Co., Watertown, S. Dakota, at \$78,492.80; 4.890 mi. earth work, James Stanton, Leavenworth, Kansas, at \$31,947.34; Green County, 1.970 mi. earth work from Springfield south, Hodges-Weeks Construction Co., Springfield, at \$13,782.06; Wright County, 2.165 mi. 26-ft. graded earth, from Mansfield east and west, J. G. Nevels & Masoner, Willow Springs at \$16,349.22; Worth County, 3.579 mi. 30-ft. graded earth from Grant City, north and south, Mike Haase, Trenton, at \$24,463.07; Green County, 1.970 mi. 18-ft. concrete, from Springfield south, Springfield Construction Co., Springfield, at \$29,006.96; Jefferson County, .949 mi. 16-ft. gravel surface, from Festus to St. Genevieve, Jack Carroll, Jackson, at \$12,035.74; Pulaski County, 2.2-5 mi. 12-ft. gravel from Jefferson City to Houston, J. E. Hartley, Mount Vernon, at \$14,175.02; Maries County, 2.04 mi. 12-ft. gravel surfacing from Vienna to Dixon, J. M. Birmingham, Vienna, at \$13,344.26; Pulaski County, 4.344 mi. 26-ft. graded earth, from Jefferson City to Houston, J. E. Hartley, at \$14,873.60; McDonald County, 4.652 mi. 26-ft. graded earth, from Anderson south, A. C. Cossata, Oklahoma City at \$62,056.75; Stoddard County, 1.719 mi. 16-ft. gravel from Puxico north, J. T. Richmond, Advance, at \$19,158.63; Miller County, 4.992 mi. 12-ft. gravel from Jefferson City to Springfield, Fogleman & Thompson, Eugene, Mo., at \$23,572.80; Gentry County, 2 sections, from King City east; 4.308 mi. 16-ft. macadam penetration, E. C. Johnson, Carrollton, at \$47,695.13; 4.308 mi. graded earth, E. C. Johnson, at \$48,027.04; McDonald County, 2.335 mi. 26-ft. graded earth from Anderson south, C. J. Williams, Monett, at \$16,662.83; Stoddard County, 3.30 mi. 16-ft. gravel and 40-ft. cement from Bernice south, Dexter Construction Co., Dexter, at \$42,904.38; Wright County, 3.501 mi. 26-ft. graded earth from Mansfield east, A. M. Curtis, and Bert Ellis, Springfield, at \$15,197.04; St. Genevieve County, .872 mi. 16-ft. gravel surfacing from Festus to St. Genevieve, C. P. O'Reilly & Co., St. Louis, at \$11,472.43; Nodaway County, 2 sections, from Maryville south; 5 mi. earthwork, James Stanton, Leavenworth, Kan., at \$29,232.13; 5 mi. 18-ft. concrete, C. H. Atkinson Paving Co., at \$81,308.30; Miller County, 4.992 mi. 12-ft. gravel from Jefferson City to Springfield, Fogleman & Thompson, at \$23,572.80; Maries County, 4.924 mi. 12-ft. gravel surfacing from Vienna to Dixon, J. M. Birmingham, Vienna, at \$27,579.54.

North Carolina—State Highway Comm., Raleigh, received low bids for 12 road projects as follows: Project 102—Beaufort County, 8.56 mi. from Craven County line to Crocwinity, H. M. Beasley, Lumberton, at \$4435 for roadway, and at \$4957.20 for structures; 156—Martin County—17.51 mi. from Williamston to Washington County line, Nello L. Teer, Durham, at \$129,179, for roadway, J. A. Peterson, at \$65,719 for structures; 162—Nash County, 12.15 mi. from Nashville to Franklin County line, also link in Franklin County from Castalia toward Warrenton, J. F. Mulligan Construction Co., N. Wilkesboro, at \$44,641.90; 201—Carteret County, 14.137 mi. from Craven County line to Beaufort, Frank Mitchell Construction Co., at \$501,226 for roadway; 330—Columbus County, 11.21 mi. from Whiteville to Lake Waccamaw, Coastal Construction Co., at \$331,728.50 for roadway; 421-B—Franklin County, 8.2 mi. from Franklinton to Vance County line, R. G. Lassiter Co., Raleigh, at \$257,418.50 for roadway; 447—Lee County, 1.34 mi. from

Jonesboro to hard surface road near southern limits of Sanford, R. G. Lassiter Co., at \$44,608.80, for roadway; 537-B—Guilford County, 10.99 mi. from Greensboro to Randolph County line, Ziegler & Dalton Construction Co., at \$381,179.80 for roadway, Piker & Yount, at \$24,230.60 for structures; 568—Moore County, 11.95 mi. from Carthage to Pinehurst, W. C. Carter, at \$40,814, for roadway, E. A. Wood & Co., at \$42,500 for structures; 686-B—Stanley County, 16.51 mi. from Albemarle to Cabarrus County line, Noll Construction Co., Lexington, at \$516,576 for roadway; 720—Caldwell County, 12.61 mi. from Lenoir toward Catawba County line, W. C. Carter, at \$60,647.90 for roadway; 721—Caldwell County, 13.74 mi. from Lenoir to Wilkes County line, J. T. Platt, at \$114,260 for roadway, Harris & Spaulding, at \$40,645.20 for structures.

Mo., Chillicothe—City plans paving Walnut, Normal Ave. and Springhill St. Address The Mayor.

Mo., Columbia—City let contract to E. C. Johnson Co., Carrollton, at \$6607.75, to improve 2 blocks on Turner Ave.

Mo., Hannibal—City will let contract soon for 3 mi. street paving; cost \$126,581. Address The Mayor.

Mo., Independence—City plans paving W. Lexington St. Address The Mayor.

Mo., Joplin—City let contract to V. E. Koch, to grade and macadamize McKinley Ave. from 4th to 7th Sts.; F. T. Snapp, Mayor.

Mo., Maryville—City plans paving 8 blocks on Walnut St.; Joseph Reese, City Engr.

Mo., Odessa—Board of Aldermen plans expending \$30,000 for paving streets in business section.

Mo., Springfield—War Dept., Washington, D. C., appropriated \$11,000 for 2 mi. road on National Blvd., leading to National Cemetery; John McCarthy, Supt. of Cemetery.

N. C., Asheville—Details under Land Developments.

N. C., Black Mountain—Town will receive bids soon for paving and laying sidewalks on various streets as follows: Concrete and lay sidewalk on Church St. from State St., distance of 1100 ft.; lay sidewalk on north side of State St. from Slover corner to Monte Vista; Vance Ave. from Black Mountain Ave. to town limit; Montreat road from State St. to town limit; will also install sewer and water lines on State St. down Ridgeway Ave. to 1st St.; State St. to Midland Ave. south, and on Vance Ave. to Dilling Ave., etc. Address The Mayor.

N. C., High Point—Details under Sewer Construction.

N. C., Morganton—Board of Aldermen will receive bids until April 8 to pave and otherwise improve certain streets; 13,000 cu. yd. excavation and grading; 50,000 sq. yd. plain cement concrete, reinforced cement concrete, sheet asphalt bitulithic or asphaltic concrete pavement on 5-in. Portland cement concrete base; 35,000 lin. ft. combination curb and gutter, 3000 sq. yd. sidewalk; certain storm drains and other accessories; plans, etc. from Charles Lane, City Mgr., or Warren H. Booker, Const. Engr., Charlotte, N. C.

N. C., Wilmington—Details under Land Developments.

N. C., Warrenton—Street Comm., W. G. Rogers, Chmn., will receive bids until April 5 for street improvements: 2000 yds. standard sidewalks; 200-ft. 30-in., combined curb and gutter; 1000 yds. grading; 675 sq. yds. hard surface, etc.; plans, etc., on file.

Okla., Oklahoma City—City Commrs. received low bids for paving as follows: Durland St. from 2nd to 4th, Western Paving Co., at \$9445.50; 23rd, from Classen Blvd. to Blackwater Ave., Western Paving Co., at \$18,910; 11th, from Virginia to Pennsylvania Aves., Reinhart and Donovan, at \$8556.50.

Okla., Pawhuska—City plans paving 26 blocks in Palmer Heights Addition. Address The Mayor.

S. C., Denmark—City plans municipal improvements; voted \$66,000 bonds as follows: Paving, \$33,000; sewer, \$33,000; Ryan Engineering Co., Engrs., Columbia, S. C.

S. C., Gaffney—Details under Land Developments.

S. C., Greenville—City let contract to Slatery & Henry Construction Co., at \$11,500 to lay 800 tons asphalt on Pendleton St. Address The Mayor.

S. C., Greer—City will receive bids until April 15 to pave with concrete or asphalt Mostella and Hill Sts. to city limits; H. Beebe, Engr., Spartanburg, S. C.

S. C., Lexington—State Highway Dept., Columbia, let contracts for 3 sections of roads as follows: 7.176 mi. State Route No. 1, from Orangeburg-Lexington County line to point near Swansea, to J. F. Cleckley, Cope., at \$20,702.85; 12.417 mi. from junction with State Route No. 1 to Swansea, to J. L. Carroll, Columbia, at \$41,059.89; surface 10.441 mi. State Route No. 391, from Lexington-Aiken County line to Lexington-Saluda County line, from Prosperity through Batesburg, to T. E. Hook, New Brookland, at \$44,175.82.

Tenn., Alton Park Branch, Chattanooga—City will receive bids until April 25 for combined curb and gutter on Ohio Ave., from 42nd to 45th Sts.; 45th from Ohio Ave. to T. A. G. Ry.; Highland and Kirkland Aves. from 44th to 45th; 44th from Kirkland to Highland, etc.; plans, etc., from County Engr.; R. L. Brown, Commr. of Streets and Sewers.

Tenn., Gallatin—City will receive bids until April 17 for following paving: Resurfacing existing macadam pavement, for foundation and then facing foundation with asphaltic pavement; alternate bids on Kentucky rock asphalt; asphaltic concrete; bituminous macadam, penetration method; 44,000 sq. yd. surface; 7800 tons broken stone; plans, etc., from E. E. Person, Recorder, and B. H. Klyce, Engr., 506 Fourth and Fifth National Bank Bldg., Nashville, Tenn.

Tenn., Elizabethton—Carter County plans building asphalt road between Elizabethton and Carter County line, 5 mi. from Bluff City. Address County Commrs.

Tenn., Jackson—City plans municipal improvements; will vote May 1 on \$890,000 bonds as follows: Street improvements \$500,000; enlarge water plant, \$150,000; white schools, \$150,000; erect city hall, \$125,000; Lawrence Taylor, Mayor. (Lately noted to vote March 26.)

Tenn., Jonesboro—Washington County plans rebuilding road through county to Johnson City, via Piney Flats. Address County Commrs.

Tenn., Memphis—City let contract to Crinkley Construction Co. to pave Linden and Poplar Aves.; cost \$10,000. Address The Mayor.

Tenn., Memphis—Details under Land Developments.

Tex., Angleton—Brazoria County plans gravel surfacing with 12-ft. shell, and overflow section with concrete, 2 mi. State Highway No. 36, Road Dist. No. 16; estimated cost \$30,000; H. W. Munson, Engr., Road Dist. No. 16; J. T. Loggins, County Judge.

Tex., Archer City—Archer County, Road Dist. No. 2, plans road building; voted \$300,000 bonds; E. M. Hooper, County Judge.

Tex., Bellville—Austin County, Precinct No. 1, plans road building; voted \$450,000 bonds. Address County Commrs.

Tex., Bellville—Austin County plans 14 mi. gravel surfaced road on State Highway No. 36, from Fort Bend County line to Sealey; estimated cost \$228,500; Herbert Schroeter, County Engr., Wallace; W. I. Hill, County Judge, Bellville.

Tex., Brownsville—Cameron County let contract to Dodds & Wedegartner, San Benito, Tex., at \$80,000 for 3.1 mi. 18-ft. reinforced concrete pavement from Harlingen, north on Raymondville road.

Tex., Boston—Bowie County, Hooks Dist., plans road to New Boston; voted \$50,000 bonds. Address County Commrs.

Tex., Burkburnett—City will receive bids to hard surface following streets in business district: Wigham, Aves. A, B, C, D, and E, and E 4th; concrete curb and gutter; vitrified pipe for culverts. Address The Mayor.

Tex., Cameron—Milam County plans 14 mi. Rockdale-Thorndale Road in Road Dist. No. 10; will vote April 28 on \$125,000 bonds; A. E. Mitchell, County Engr.; Jeff T. Kemp, County Judge.

Tex., Cameron—State Highway Dept., Austin, approved plans to grade and construct drainage structures on 4.09 mi. State Highway No. 43, Road Dist. No. 29, Milam County; estimated cost \$33,000; A. E. Mitchell, County Engr.; J. T. Kemp, County Judge.

Tex., Cameron—Milam County, Precinct No. 10, plans highway improvements; will vote April 26 on \$75,000 bonds; Jeff T. Kemp, County Judge.

Tex., Corsicana—City Comm. let contract to Panhandle Construction Co., Lubbock, Tex., at \$237,250.74 to pave 12 streets.

Tex., Corsicana—Navarro County let contract to J. S. Paxton, at \$7000, to construct drainage structures and clay surface 5 mi. Road Dist. No. 15, between Streetman and Winkler; A. P. Mays, County Judge.

Tex., Dallas—Broadmoor Improvement League, Henry Revere, Pres., interested in graveling Britton Ave.

Tex., Dallas—Details under Land Developments.

Tex., Dallas—North Texas Trust Co. has awarded contract to Uvalde Rock Asphalt Co., San Antonio, for street paving in Kessler Park; 5-in. concrete base, laid on sub-base, wetted and rolled; 1½-in. asphalt top.

Tex., Galveston—City Commrs., let contract to W. A. Kelso, Inc., Galveston, at \$113,707.84, to pave 25th St. from Ave F, to seawall.

Tex., Hillsboro—Hill County, Osceola Road Dist. No. 4, plans road building; voted \$50,000 bonds; J. E. Estill, County Engr.; W. L. Wray, County Judge.

Tex., Henderson—City plans street paving; voted \$100,000 bonds. Address The Mayor.

Tex., Houston—Harris County will receive bids until April 7 for 3 sections of roads as follows: Repair Lynchburg-Crosby and Lynchburg-Wooster roads; gravel 1 mi. Spencer road; build bridges on Westheimer road; plans, etc., from County Engr.; H. L. Washburn County Auditor.

Tex., Houston—Harris County will receive bids until April 14 for improving 4 sections of roads as follows: Extend shell on West Montgomery road; gravel clay road; repair and extend Bay Ridge road culverts; extend Kuykendahl road; H. L. Washburn, County Auditor.

Tex., Houston—City received low bid from Scott Shambaugh, Houston, at \$64,650 for repairing permanent paving.

Tex., Huntsville—Walker County plans hard surfacing 5 State highways; voted \$1,500,000 bonds; A. T. McKinnies, Jr., County Judge.

Tex., Italy—City will receive bids this week to furnish material, labor, etc., to improve certain streets: 9500 cu. yd. earth excavation; 10,600 lin. ft. combined curb and 18-in. gutter; 900 lin. ft. combined curb and 36-in. gutter; 360 lin. ft. separate 30-in. gutter; 70 lin. ft. separate curb; 250 lin. ft. No. 2 18-in. vitrified storm sewer; 7 catch basins; 1850 sq. yd. pavement surface between tracks; alternate bids on following: 3-in. or 2½-in. vertical fiber brick on 5-in. concrete base; 6-in. reinforced concrete or two course plain concrete; 2-in. patented asphalt surface on 5-in. concrete base; plans, etc., from R. G. Dohoney, Mayor, and Elrod Engineering Co., Engrs., Dallas, Tex. (Lately noted.)

Tex., Kountze—Hardin County plans surfacing 3 roads, totalling 25 mi.; voted \$125,000 bonds. Address County Commrs.

Tex., Laredo—City plans street paving; voted \$80,000 bonds; S. Crecelius, Mayor.

Tex., Liberty—Liberty County will receive bids until April 25 for 4.16 mi. gravel road on State Highway No. 35, Federal Aid Project No. 426-A; 10,394.5 cu. yd. roadway excavation; 1607 lbs. reinforcing steel; gravel to be furnished by county; W. C. Youngs, County Engr., Dayton, Tex.; C. R. Willson, County Judge.

Tex., Marshall—City plans municipal improvements; contemplates voting on \$150,000 bonds as follows: Street improvement, \$50,000; city hall, \$100,000. Address City Attorney Caven.

Tex., McKinney—Collin County let contract to Tibbetts Construction Co., Mineral Wells, at \$240,000 for 7 mi. reinforced concrete road in county; Project 402.

Tex., Tyler—Smith County will receive bids until April 7 for 6 mi. concrete road on State Highway No. 31, from point near city limits to point near Bellwood; estimated cost \$160,000; C. D. Caldwell, Engr.

Tex., Sanderson—Terrell County will receive bids until April 24 for 12.48 mi. gravel road on State Highway No. 12, Federal Aid Project No. 324-B; 29,306.5 cu. yd. roadway excavation; John Stovall, County Engr.; G. J. Henshaw, County Judge.

Tex., Vernon—Wilbarger County, East Vernon and Oklaunion Dists., plan improving 2 road sections; voted \$150,000 bonds; O. T. Warlick, County Judge.

Va., Boydton—State Highway Comm., Richmond, will expend \$75,000 to build 5.1 mi. bituminous macadam road from Boydton to Chase City. (Lately noted.)

Va., Charles City—Charles City County, Board of Supvrs., will receive bids until April 11 to grade, drain and gravel 4 roads as follows: 3.47 mi. River Road from Graves Shop to Sandy Point Gate; 4.76 mi. Holdcroft road, from Blanks Old Tavern to end of State Road, east of Holdercroft; 6.35 mi. Salem Church road, from Adams Corner on River Road to Old Samaria Church on Roxbury road; 4.5 mi. road from Bourns Store on River road to Blinn's Store on Roxbury road; plans, etc. on file; J. M. Gill, Chmn.

Va., Danville—City plans repaving Craghead St.; \$63,000 available. Address The Mayor.

Va., Lynchburg—City will receive bids until April 5 for concrete sidewalks on Park Ave., M, Locust, Dale and Wadsworth Sts.; plans, etc., from City Engr.; E. A. Beck, City Mgr.

Va., Portsmouth—Norfolk County Roads

and Bridges Comn. let contract to Burnett & Cousins, Norfolk, to grade Dismal Swamp Canal Bank road from Deep Creek to North Carolina line.

Va., Portsmouth—City plans paving streets and public thoroughfares, and installing sewers; will sell \$360,000 bonds; J. P. Jervey, City Mgr.

Va., Richmond—City received low bid from John Curley, at \$10,000, to grade Rutherford tract in Highland Park; Allen J. Saville, Director of Public Works.

Va., Richmond—Dept. of Public Works, plans laying smooth sidewalks on Grace St. from 9th past 1st St.; Allen J. Saville, Director of Dept. Road.

Va., South Boston—Details under Bridges, Culverts, Viaducts.

Va., Stuart—State Highway Comn., Richmond, plans building road from Stuart to North Carolina line.

Va., Suffolk—City plans street improvements; contemplates \$200,000 bond issue. Address City Mgr.

W. Va., Philippi—Barbour County, Union Dist., plans building permanent highway through district between Philippi and Clarksburg; voted \$325,000 bonds. Address County Commrs.

W. Va., Buchannon—State Road Comn., Charleston, and Upshur County Court, Buchannon, will receive bids until April 19 to grade, drain and pave with bituminous macadam 5.89 mi. Buchanon and Cleveland road, Meade Dist., between Banks District line and Buchannon District line; plans, etc., on file; E. B. Carskadon, Sec., Charleston. (Lately noted bids until March 10.)

W. Va., Charleston—Details under Land Developments.

W. Va., Fairmont—Marion County Court will receive bids in July to improve 3 sections of roads as follows: Paw Paw Dist., 14-ft. macadam road, \$324,000 available; Mannington Dist., 14-ft. concrete, 14-ft. macadam, and 9-ft. macadam roads, \$600,000 available; Lincoln Dist., 16-ft. 14-ft., and 9-ft. concrete road, 14-ft. and 9-ft. macadam roads, \$333,400 available; B. H. Palmer, Engr., Fairmont.

W. Va., Huntington—City will receive bids until April 10 to grade, curb and pave following streets, avenues, roads, and alleys: Burlington road, from Piedmont road to Kanawha and James River turnpike; Kanawha and James River turnpike from Burlington road to Washington Drive; Washington Drive, from James River turnpike to city limits; Pogue St. west to point 560 ft. from Norway Ave.; 37th St. from 3rd Ave. to river; 24½ from 8th to 9th; Locust from Norway to corporation line; Bradley from east end to Vinson; Vernon Court, Vinson and Wayne, from Bradley to Piedmont road; Washington Blvd., from Norway to Ricketts' line; Woodland Drive from Washington Blvd. to south line of Lamie property; High Drive from Woodland Drive to Ricketts' road; 26th from 4th to 5th Aves.; Chase between Camden road and Four Pole; 4th, 5th and 6th Sts., from 3rd to 2nd Alley; Alley between 4th and College Aves., from 18th to 19th Sts.; College Ave. from point about 150 ft. west of 17th St. to 17th St.; 17th St. from College to 5th Ave.; Marshall from Bridge to river; 11½ Alley between 11th and 12th Sts.; Old Cross Roads from Highland Cemetery gate to junction with Robey and Guyan River road; St. Louis Ave. from Davis St. to alley east of Sycamore St.; plans, etc. from A. B. Maupin, City Engr.

W. Va., St. Albans—City will receive bids until April 28 to grade, curb, pave and otherwise improve following streets:

Pennsylvania Ave. from Kanawha Terrace to Main St.; Lee Ave., from Kanawha Terrace to Weimer St.; plans, etc. from Ernest Bruce, City Engr.; O. H. Palmer, City Clk.

W. Va., Williamson—Wingo County will receive bids until April 19 for 4 sections roads as follows: Grade and drain 7.31 mi. Marrowbone Creek road from Wayne-Mingo County line to point near William Brewer farm; grade and drain 3.35 mi. Buffalo Creek road from State Road on Buffalo Creek to point near Buffalo Thacker Coal Co.'s store; 2.5 mi. bituminous macadam surface on Marrowbone-Kermit road; 2 mi. bituminous macadam surface on Naugatuck-Nolan road; plans, etc., from Holton Cook, County Engr., Williamson, and Div. Engr.

Sewer Construction

Ala., Birmingham—City, A. J. Hawkins, City Engr., will expend \$273,000 for construction of sanitary sewer system in business district; bids will be received on brick and concrete sewers. (Lately noted.)

Ala., Bessemer—City Engr., has been instructed to make estimate of cost of completing sanitary sewer system in Fifth Ward.

Fla., Miami—City, A. H. Wharton, City Mgr., let contract to J. J. Quinn Co., Miami, to construct sewer system, cost \$135,000; Ernest Cotton, Engr.

Ala., Montgomery — City — James W. Heustess, Mayor, considering installation of sewer system.

Ala., Selma—City let contract to Alabama Concrete Products Co., to build storm water sewers on Parkman and Furniss Aves.; W. O. Cristam, Engr. (Lately noted.)

Fla., Tampa—Details under Land Developments.

Ga., Elberton — Details under Water Works.

Ky., Ashland—City, W. M. Salsbury, Mayor, receives bids until April 7 to construct sanitary sewer from Greenup Ave. to Railroad Ave., approximate quantities are: 1010 lin. ft. of trench for 12-in. pipe average depth 12½ ft.; 10 lin. ft. of tunnel; 1017 ft. of 12-in. vitrified pipe; four 12-in.x6-in. Y's; 5 manholes; 2 inlets.

Ky., Ashland—City, W. M. Salsbury, Mayor, receives bids until April 7 to construct combined sanitary and storm water sewer on 10th street; 1558 lin. ft. of trench for 24-in. pipe, average depth 15 ft.; 200 lin. ft. of trench for 24-in. pipe average depth 8 ft.; 200 lin. ft. of trench for 4 to 18-in pipe average depth 8 ft.; 228 lin. ft. of tunnel; 1744 lin. ft. of 24-in., 20 lin. ft. of 18-in., 80lin. ft. of 15-in., 20 lin. ft. of 10-in., 40 lin. ft. of 6-in., 40 lin. ft. of 4-in. vitrified sewer pipe; four 24x10 in. Y's, one 24x8 in. Y, ten 24x6 in. Y's; 212 lin. ft. of 24-in. cast iron pipe; 7 manholes; 4 inlets; 10,000 ft. of B. M. sheathing; outfall at river.

Ky., Winchester—Details under Miscellaneous Construction.

Miss., Jackson—Details under Land Developments.

N. C., Asheville—Details under Land Developments.

N. C., Black Mountain—Details under Road and Street Construction.

N. C., High Point—City will issue \$299,000 bonds for enlarging and extending sewers system; \$180,000 bonds for street improvements; \$30,000 for extending and enlarging electric light system; \$200,000 for extending water works system; Ed. L. Ragan, City Sec.

N. C., Mooresville—City, P. C. McNeely, Mayor, receives bids until April 7 for sewerage disposal plant; work consists of 20x37

x32 ft. reinforced concrete Imhoff tank; reinforced concrete dosing tank 26 ft. in diam.; sand filters and sludge bed aggregating one-half acre, Gilbert C. White Co., Engrs., Durham, N. C.

N. C., Robersonville—Details under Water Works.

S. C., Denmark—Details under Road and Street Construction.

S. C., Greer—City, B. A. Bennett, Mayor, receives bids until April 15 to construct storm sewers; Harwood Beebe, Engr., Spartanburg, S. C.

S. C., Greer—City is having surveys made by R. E. Dalton, Civil Engr., for installing sewer line on Hill St.

S. C., Spartanburg—City Council will extend Austin Street sewer so as to connect with sewer outfall.

Tex., Dallas—Details under Land Development.

Tex., Floydada—Details under Water Works.

Tex., Italy — Details under Road and Street Construction.

Va., Blacksburg—City voted \$50,000 bonds for improvements to sewer system. Address The Mayor.

Va., Portsmouth—Details under Road and Street Construction.

Va., Richmond—Allen J. Saville, Director of Public Works, will receive bids until April 8 to construct sewer in Valley Road from Mill street to Richmond and Henrico Turnpike and north from Valley road approximately 270 ft.

Shipbuilding Plants

La., Baton Rouge—Oliver H. Van Horn Co., Inc., of New Orleans, La., represented by James G. Dillon, reported to have option on site, to erect plant to build steel hulls for barges and light crafts for river service.

Telephone Systems

Ala., Elba—Elba Telephone Co., capital \$12,500, incorporated by D. J. Broows, C. P. Hays and others.

Fla., Fort Pierce—Southern Bell Telephone Co., main office Atlanta, Ga., petitioning city for 30 years franchise, also the acquisition of the system and plant of the Brevard County Telephone Co.

Fla., St. Petersburg—Peninsular Telephone Co., O. R. Frazee, local Mgr. will soon begin construction of exchange building on First Ave. (Lately noted.)

Md., Baltimore—Chesapeake & Potomac Telephone Co. will occupy building corner Payson and Elgin Ave., 1 story, 140x185 ft., steel and concrete construction, slag roof; J. P. Brandon & Bros., 3103 N. Charles St., Owners and Builders.

N. C., Asheville—Details under Land Developments.

Tex., Athens—Athens Telephone Co. will expend approximately \$100,000 in rebuilding exchange building.

Textile Mills

N. C., Mt. Holly—Tuckasegee Spinning Co., capital \$500,000, incorporated by A. Q. Kale, of High Shoals, N. C.; C. A. Cochran, of Charlotte, N. C.

N. C., Monroe—C. C. Coddington, Charlotte, N. C., reported to have acquired Bearskin Cotton Mills.

S. C., Belton—Blair Mills, E. B. Rice, Pres. and Treas., advises the MANUFACTURER RECORD that company has under construction a 2-story addition to present mill, 80x80 ft., regular mill construction, for the manufacture of turkish towels; addition will

double capacity of plant, bringing production up to 1000 doz. towels per day; machinery has not been purchased. (Lately noted.)

S. C., Goldville—Oswego Shade Cloth Co., Oswego, N. Y., reported to have acquired Banna Manufacturing Co.'s plant; will increase capacity of plant adding 20,000 spindles and 400 looms; plant will be under management of Lockwood, Greene & Co., Spartanburg, S. C.

Wire to the MANUFACTURERS RECORD from D. A. Tillinghast for A. W. Law, states: "Purchase of the Banna Manufacturing Co. a 14,000 mill at Goldville, S. C. by the Oswego Shade Cloth Co. of New York has been announced through A. M. Law & Co., stock and bond brokers, who handled the deal, which involved about \$500,000. The owners who are a subsidiary of Stewart Hartshorn Shade Co., will probably enlarge the plant to meet present needs, but such details will be worked out after possession has been secured. Meeting of stockholders has been set for March 28 at which time the transfer of stock is expected to be made 100 per cent."

S. C., Greenville—Southern Weaving Co., \$120,000 capital, incorporated by J. W. Burnett, F. D. Murdock and others; has building with 20,000 sq. ft. of floor space and will improve for weaving mill, producing about 6500 lbs. of cotton specialties weekly.

S. C., Lancaster—Lancaster Cotton Mills, lately noted having let contract to Potter & Shackelford, Inc., Gallivan Bldg., Greenville, S. C., for erection of brick and timber, 160x108 ft., 2 stories and basement, weave shed has let the following additional contracts: To J. A. Piper Roofing Co., Greenville, S. C., for roofing and sheet metal work; to J. A. Floyd Plumbing Co., Greenville, S. C., for plumbing; to Detroit Steel Products Co., Detroit, Mich., for steel sash; to The Wilson Co., Greenville, S. C., for structural steel.

N. C., Paw Creek—Thrift Manufacturing Co.'s mill reported to have been acquired by Harry B. Kendall, 60 Congress St., Boston, Mass.; wire to the MANUFACTURERS RECORD from W. C. Wilkinson, Pres., Thrift Manufacturing Co., confirms the report of the purchase.

Wire to the MANUFACTURERS RECORD from Henry B. Kendall states: "Thrift mill will supply to Lewis Manufacturing Co. a larger portion of gray cloth used for surgical dressings, etc.; only expansion immediately for purpose of adjusting mill to the Lewis product; no further plans announced at present time."

N. C., Rockingham—Hannah Pickett Mills let contract to T. C. Thompson & Bros., Charlotte, N. C., to erect addition to present building 225x388 ft.; cost \$250,000; will install 38,000 spindles, 800 looms; contract for looms let to Draper Corporation of Hopedale, Mass., and for spindles to Whitin Machine Works of Whitinsville, Mass.; mill will be electrically driven with 1700 h.p. available, power plant to cost \$50,000. (Lately noted.)

S. C., Spartanburg—Franklin Process Spinning Co., G. T. Metcalf, Advertising Mgr., advises the MANUFACTURERS RECORD that all contracts for construction work, either in process or contemplated, have already been placed; to Saco-Lowell Shops, Boston, Mass., for 11 new spinning frames, 36 heads drawing, 40 universal winders. (Lately noted.)

Va., Covington—Covington Silk Mill, Henry Ruegg, Jr., Pres., New York, reported contemplating erection of second unit about the size of the present plant.

Water Works

Ala., Birmingham—Birmingham Water Works Co. will expend \$120,000 for construction of a 16-in. additional water main through West End and Central Park.

Ark., Mena—Mena Water Works, Improvement Dist. No. 2, F. H. Daniels, Chrmn., will expend \$25,000 for improvements to water works; lay 8000 ft. 6-in. C. I. pipe, 6000 ft. of 4-in. C. I. pipe. (Lately noted.)

Fla., Miami—Details under Land Developments.

Fla., Tampa—City Commsn. approved plans by Nicholas S. Hill, Jr., City Consit. Engr. for water plant on Hillsborough River and will soon call for bids for construction.

Fla., Tampa—Details under Land Developments.

Ga., Elberton—City voted \$40,000 bonds for water works, lay sewers and repair pavements. Address The Mayor.

La., Lafayette—City voted \$200,000 bonds for water and light plant; Robt. L. Moulton, Mayor. (Lately noted.)

Md., Middletown—City contemplates installation of water works. Address The Mayor.

Miss., Corinth—City let contract to Layne & Bowler Corp., of Memphis, Tenn., for well to supplement city water supply.

Miss., Jackson—Details under Land Developments.

N. C., Asheville—Details under Land Developments.

N. C., Black Mountain—Details under Road and Street Construction.

N. C., High Point—Details under Sewer Construction.

N. C., Robersonville—City let contract to Boyd, Higgins & Goforth, Charlotte, N. C., at \$85,288 to construct complete water and sewer system; Carolina Engineering Co., of Wilmington and Charlotte, N. C. are engineers. (Lately noted.)

N. C., Spindale—Town will issue \$100,000 bonds for improving water works; \$17,000 bonds for improving electric light system; Fred C. Kinsey, Clk.

N. C., West Jefferson—City voted \$25,000 bonds for installation of water works system. Address The Mayor.

N. C., Wilmington—Details under Land Developments.

N. C., Winston-Salem—Harry L. Shaner, Commr. of Public Works, will receive bids until April 8 for the building of mixing chamber, coagulation basin, clear water reservoir and appurtenances.

Okla., Bartlesville—City is considering improvements to water system, is having surveys made; may vote on bonds. Address The Mayor.

Okla., Heavener—City will construct extension to water works system; erect building 20x28 ft., brick, cost \$14,000; daily capacity 2,000,000 gals water; concrete reservoir, 15,000 cu. ft. capacity, cost \$18,000; will install motor driven pumps; will expend \$156,000; C. W. Mizell, City Mgr.; V. V. Long & Co., Engrs., 1300 Colcord Bldg.; will vote on bonds in the late summer; construction bids opened Jan. 1, 1925; machinery bids March 1, 1925.

S. C., Newberry—City let contract to Guion & Withers of Gastonia, N. C., at \$83,749.50 to construct water supply system; consisting of intake pumping station, a one million gallon service reservoir, coagulating basin, two 500,000 gallon concrete filters and approx. 14,000 ft. of 12-in. supply mains; water will be pumped from Bush river, distant of 3 miles. (Lately noted.)

Tenn., Jackson—Details under Road and Street Construction.

Tex., Beaumont—City, J. I. Black, Chrmn. Water Works Commn., is having plans prepared by Burns & McDonnell, Engrs, 402 Interstate Bldg., Kansas City, Mo., for filtration plant of 12,000,000 gal. capacity.

Tex., Dallas—City, H. R. Davis, Mayor, let contract to American Well Works, Aurora, Ill., for a 3000 gal. capacity pump and to Industrial Electric Co., 1215 Sante Fe Ave., Los Angeles, Cal., for 200 h.p. motor for water pumping station.

Tex., Floydada—City voted \$60,000 bonds for construction of sewer system and improvements to water works. Address The Mayor. (Lately noted.)

Tex., Floresville—City is having plans prepared by Municipal Engineering Co., 715 Praetorian Bldg., Dallas, Tex., for water works improvements; including reservoir, new pumps and engines and extensions of mains; cost \$70,000; will vote in April on bonds.

Tex., Mexia—City, T. Elmo Longbotham, Mayor, let contract to Duran & Warthington of Dallas, Tex., for erection of filtration plant.

Tex., Wortham—City let contract to Duran & Worthington of Dallas, Tex. to construct filter plant to city lake.

Va., Roanoke—City has option of site above Salem and contemplates installing water system. Address The Mayor.

W. Va., Wheeling—City, J. S. Butts, Mgr., plans expenditure of \$75,000 for water system in new addition; will lay about 3½ miles of 6-in. main.

Woodworking Plants

Ala., Haraway—M. B. Veneer Mill Co., capital \$20,000, incorporated by G. D. Johnson, W. G. Martin and others.

Fla., Jacksonville—Sterchi Brothers Co., capital \$100,000, incorporated with M. C. Jenkins, Pres.; Cecil Willis, Sec.; manufacture furniture.

Fla., Jacksonville—Interstate Cooperage Co., V. J. Blow, Pres., of Titusville, Pa.; J. N. Gibson, Treas., Decatur, Ala.; and R. J. Miller, Sec., Jacksonville; re-organized by the consolidation of the Wright Barrel & Export Co., with the Interstate Cooperage Co.; the merging of the two plants give the Company five barrel plants in Florida and Georgia; contemplates installing two more plants, one in Southern Florida and one in Central Georgia.

La., Baton Rouge—C. C. Mengel Co., of Louisville, Ky., reported to have acquired 95 acres land; will erect \$1,000,000 hardwood manufacturing plant, specializing in the manufacture of body parts.

Md., Cumberland—J. Millenson Furniture Co., capital \$15,000, incorporated by Jacob Millenson, Monroe Cohen and others.

N. C., High Point—Tomlinson Chair Manufacturing Co., C. F. Tomlinson, Pres., plans expending \$20,000 on addition to factory, 250x60 ft. to be used as work room unit.

N. C., High Point—Knox Upholstering Co., 300 High St., let contract to J. L. Crouse, Greensboro, N. C., to erect 2 story, 60 x 130-ft. factory building, 21 x 100-ft. dry kiln, 30 x 40-ft. boiler and heating plant; wood frame, iron clad, fireproof roofing, wood floors; estimated cost \$12,500; will install woodworking machinery, dry kiln and boiler equipment; manufacture davenport suites, daily output 200. (Lately noted.) (See Machinery Wanted—Woodworking Machinery; Dry Kiln; Boiler and Heating Plant Equipment.)

N. C., Winston-Salem—The Winston-Salem Chair Co. let contract for the installa-

tion of new boiler equipment at plant at Southside; will double the present capacity of power house.

S. C., Columbia—Handles—Hanna Manufacturing Co., Clay Hanna, Pres.-Mgr. Athens, Ga., has under construction 52x102 ft. plant, wood frame iron clad; galvanized iron roof; let contract to DeFrance Machine Works, DeFrance, Ohio, and Fay & Egan Co., Cincinnati, Ohio for equipment; daily output 375 doz. shovel handles.

S. C., Spartanburg—Luke Godwin will establish plant for the manufacture of chairs, lawn swings, etc.

Tex., El Paso—Texas Extension Rlm Co., capital \$40,000, incorporated by N. S. Williams, D. E. Fowler and others.

Tex., Houston—Ethridge Furniture Co., capital \$50,000, incorporated by L. O. Etheridge, D. Powers and others.

Tex., San Antonio—Home Furniture Co., capital \$22,000, incorporated by F. B. McDaniel, E. L. Brooking and others.

Va., Martinsville—Company organized by J. D. and C. C. Bassett and Clyde Hooker, all of Bassett, Va., with \$300,000 capital; plans erecting plant for the manufacture of furniture.

Va., Pembroke—Pembroke Manufacturing Co., W. B. Snidow, Mgr., have acquired a timber tract of about 2,500,000 ft. and are installing machinery for the manufacture of wooden toy, known as "Walkee-horse;" will also manufacture patented mechanical bag used as an automobile chain bag and a collapsible bag used as a radiator filler.

FIRE DAMAGE

Ala., Florala—Residences of T. J. Britton and J. E. Waters, both Lakewood.

Ala., Red Level—Red Level School Building; address W. S. Branham, Supt.

Ala., Mountain Creek—Old Soldiers' Home near Mountain Creek; Address The Supt.

Ala., University—Denny Field baseball grandstand at University of Alabama.

Ark., London—High school building; loss \$20,000. Address Pope County Board of Education, Russellville.

Ga., Atlanta—Store of G. W. Hatcher & Co., 1046 Marietta St.; loss \$30,000.

Ga., Atlanta—Home Art Supply Co., 172 Whitshall St.; loss \$100,000; address W. S. Kincaid, Pres.

Ga., Mabley—Freeman Building occupied by Dr. P. H. Fitzgerald and Tarver Furniture and Hdwe. Co.

Ga., Elberton—Office of Galphin Lumber Co. and C. C. Vaughn's ginnery; loss not estimated.

Ga., West Point—A. W. Barbour's grocery store owned by Wolfe and Jno. Harrington and Mrs. Shealey; Wallace and Barden's Dry Goods Store owned by J. J. Hagedorn & Co.; loss \$50,000.

Ky., Barbourville—National Theater and Mitchell Block occupied by Mountain Advocate Publishing Co., National Restaurant and 6 apartments above, loss \$75,000.

Ky., Clay—High school building; loss \$60,000; address Webster County Board of Education, Dixon.

Ky., Louisville—Shoe store of Robt. Nairn; loss \$20,000; Schuster Bros.' store; loss \$2000.

La., Haynesville—Norton Hardware Co. owned by E. P. Stonecipher, Lois Elmore and Mrs. Ann Norton; loss \$25,000.

La., New Orleans—McDonogh School No. 16, Touro and St. Claude Sts.; loss \$150,000; address School Board.

La., Singer—School building; loss \$20,000 address Beauregard County Board of Education, De Ridder, La.

Md., Frederick—Frederick County Farmers' Exchange Grain Elevator, estimated loss \$45,000.

Md., Jefferson—Saml. M. Culler's residence; loss \$7000 to \$8000.

Miss., Aberdeen—Gaston Therrell's residence; loss \$30,000.

Miss., Brandon—Episcopal Church, address The Rector; Courthouse, address County Commrs.; residences of G. H. Harrison, J. H. Richardson; old Gayden Hotel and Lovelace Livery and building owned by Arthur Bryant; total loss \$100,000.

Miss., Magnolia—A. K. Landau's residence, Cherry St.; loss \$10,000.

Okla., Miami—Plants of the Cunningham Oil Co., and the Texico Oil Co.; loss not estimated.

Okla., Muskogee—Residence of J. H. Patterson, Cashr., Southern States Lumber Co.

S. C., Aiken—Downer Institute, seventh school district, in Beech Island; loss \$14,000; address R. L. McElmurray, Trustee.

S. C., Columbia—Davis College at University of South Carolina; loss \$40,000; address W. D. Melton, Pres.

S. C., Greenville—Warehouse No. 4 of American Spinning Co.; loss between \$150,000 and \$200,000.

Tenn., Chattanooga—Store of Lawless Bros. Co., 222 East Main St.; loss \$15,000.

Tenn., Rockwood—Rockwood Garage on Front St.; estimated loss \$50,000; owned by C. W. Haley.

Tex., Dallas—Two dwellings in 1800 block Maryland Ave., Trinity Heights, owned by J. B. Cook; loss \$10,000.

Tex., Houston—Dr. Penn B. Thornton's sanitarium on fourth floor of Freed Bldg., Texas Ave. and Fannin St.

Va., Fredericksburg—Oakenbrow, Dr. J. H. Low's residence on Rappahannock River in King George County.

Va., Harrisonburg—I. Isenman's department store; loss \$90,000.

Va., Norfolk—Building occupied by Foreman Musical Co., Inc., and Vanderherchen Conservatory, 428 Granby St.

Va., Richlands—Mrs. Robt. Harold's residence and 3 additional buildings; loss \$20,000.

Va., South Boston—Wallace Moore's residence; loss about \$10,000.

BUILDING NEWS BUILDINGS PROPOSED

Association and Fraternal

Ark., Paragould—Ancient Free and Accepted Masons, Saul Bertig, member of Comm., plan to erect \$30,000 to \$40,000 temple; 2 stories and basement; are also considering purchasing and rebuilding Gerald Bldg. recently damaged by fire.

Fla., Daytona—Halifax Lodge No. 81, A. F. & A. M., C. C. Snow, Worshipful Master, plans to erect \$50,000 building; 2 stories, with foundations to permit erection of additional stories later; interlocking tile and brick with ornamental stone front; 2 stores and arcade on first floor, lodge rooms on second; will issue bonds to finance.

Ga., Savannah—Young Women's Christian Assn., Mrs. H. C. Foss, Pres., plans to complete physical dept. and later erect dormitories and complete swimming pool; \$31,000 available.

Ky., Louisville—Fraternal Order of Eagles will erect addition to Eagles Club at 812 S. Second St.; 2 stories, mezzanine and finished basement; plans completed.

La., New Orleans—Loyal Order of Moose, Sam Cohen, Trustee, plans to remodel and enlarge building at 1422 Canal St.

Miss., Okolona—Ancient Free and Accepted Masons will rebuild structure lately noted burned.

Mo., Carthage—Ancient Free and Accepted Masons advise there is nothing doing at present regarding erection of addition to York Rite Temple. (Lately noted.)

N. C., Newton—Catawba Lodge No. 248, A. F. & A. M., plans to erect building; W. B. Gaither, interested.

Okla., Altus—Benevolent Protective Order of Elks, H. L. Todd, Sec., will erect \$30,000 fireproof lodge building.

Okla., Ardmore—Masonic Bodies, G. O. Daunis, Sec., have not yet selected architect for erection of \$300,000 Masonic Temple;

100x150 ft., 3 stories with foundations to carry 10 stories. (Noted March 20 under Okla., Oklahoma City).

Okla., Ada—Ancient Arable Order, Nobles of Mystic Shrine, plans to erect Delphi Temple.

Okla., Blackwell—Chickasha Lodge No. 108, A. F. & A. M., will probably select architect within few days to prepare plans for \$80,000 temple; 3 stories, fireproof; H. J. Clark, Sec.

Okla., Duncan—Harry Dobbs Post, American Legion, plans to erect \$15,000 clubhouse; financing.

Okla., Muskogee—Masonic Building Assn., W. G. Gibbons, Pres., will probably receive bids about April 1 for erection of fireproof Masonic Temple, 6th and Boston Sts.; cost about \$150,000, including heating; vaults, rolling partitions; Bassham & Howenstine, Muskogee, and Jewell Hicks & W. T. Emerick, Durant, Okla., Asso. Archts. (Previously noted).

Okla., Wewoka—Ancient Free and Accepted Masons will erect \$20,000 temple, block 46, S. Wewoka Ave.

Tenn., Dandridge—Junior Order of United American Mechanics has indefinitely postponed erection of building. (Lately noted.)

Tenn., Johnson City—Johnson City Lodge No. 486, A. F. & A. M., plan to erect \$100,000 Masonic Temple to accommodate various Masonic lodges; 3 stories, basement and mezzanine; gymnasium, swimming pool and bowling alley on ground floor.

Tenn., Knoxville—Young Women's Christian Assn., Bayard M. Hedrick, Campaign Director, will inaugurate \$200,000 campaign April 7 to provide for erection of building.

Tenn., Memphis—Mazda Grotto, Mystic Order of Veiled Prophets of the Enchanted Realm, A. F. & A. M., E. C. Correll, Monarch, will erect \$100,000 building; auditorium on main floor to seat 5000.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tex., Austin—Young Women's Christian Assn. is having tentative plans prepared by Giesecke & Harris, Austin, for erection of \$100,000 three-story building, 10th and Brazos Sts.; administration offices, cafeteria, etc., on first floor, bedrooms and auditorium on second floor, gymnasium and steel-lined swimming pool on third; directors have not definitely decided whether to remodel present structure or to erect the new building. (Previously noted.)

Tex., Navasota—Ancient Free and Accepted Masons are reported to be considering erection of \$30,000 to \$50,000 temple.

Tex., Pecan Gap—Ancient Free and Accepted Masons will erect 2-story brick temple; cost about \$10,000.

Tex., Waco—Labor Unions plan to erect \$40,000 brick Labor Temple; Luther D. Wade, Pres., Labor Council.

Va., Richmond—Chas. M. Robinson advises erection of \$1,000,000 Shrine Mosque for Acca Temple has been held up; Mr. Robinson and Marcellus T. Wright, Archts., Richmond. (Noted Feb. 7.)

W. Va., Martinsburg—Washington Lodge, No. 1, K. of P., Chas. Crump, Chmn. of Comm., purchased site, John and Queen Sts., and is reported to erect 50x70 ft. Pythian Castle; lodge and recreation rooms, etc., and possibly apartments.

Bank and Office

Fla., Miami—Curtiss-Bright Co., will erect \$40,000 building at Hialeah for administration offices; 2 stories, concrete and tile; construction to begin at once.

Ky., Blackey—J. T. Whitaker will erect store and office building; contract at once.

Md., Baltimore—Roland Park Co., Professional Bldg., purchased building at 18 E. Lexington St., and plans to improve; Edw. L. Palmer, Archt., 513 N. Charles St., Baltimore.

Miss., Okolona—Commercial Bank & Trust Co. is reported to rebuild burned structure.

N. C., Salisbury—Wachovia Bank & Trust Co., Winston-Salem, N. C., will erect branch bank building, N. Main and Council Sts.; 4 stories; offices for rent on second and third floors; Northrup & O'Brien, Archts., Winston-Salem, will soon have plans ready.

Tex., Nederland—J. R. Ware advises he will not erect \$12,000 bank building at present. (Noted March 27.)

Va., Norfolk—City, W. B. Causey, City Mgr., will receive bids until April 10 for construction of grain inspector's office at Municipal Terminal on Elizabeth River; plans and specifications, etc., on file and may be obtained from Folwell-Ahlskog Co., 323 N. Michigan Ave., Chicago, Ill., and 600 Seaboard Bank Bldg., Norfolk.

Churches

Ala., Bessemer—Methodist Church, Stewart Jones, member Plans Comm., will erect \$15,000 Jones Memorial Church on Woodland Heights.

Ala., Birmingham—Handley Memorial Presbyterian Church, Rev. S. O. Cox, Pastor, will probably soon start construction of building at 25th St. and 13th Ave., North.

Ala., Birmingham—Sixty-Sixth Street Baptist Church Dr. J. M. Hankins, Chmn. Bldg. Comm., will probably break ground in about 60 days for erection of \$40,000 building, 66th St. and Sloss Ave.; brick with stone trim, 52 x 90 ft.; Van Keuren & Denham, Archts., Birmingham.

Ala., Robertsedale—Baptist Church purchased site and plans to erect building. Address The Pastor.

Ark., Little Rock—First Baptist Church, North Little Rock, Rev. J. R. G. White, Pastor, plans to erect \$50,000 combination church and business building, 4th and Poplar Sts.; are at present erecting temporary structure for summer months.

Ga., Atlanta—Dougherty & Gardner, Stahlman Bldg., Nashville, Tenn., advise they will have plans completed about April 1 for \$225,000 building, Ponce de Leon and Highland Aves., for Druid Hills Baptist Church; pine, oak and concrete floors, stone foundation, interior tile, ornamental terra cotta. (Noted March 27.)

Ga., Monticello—Methodist Church has received plans for erection of \$35,000 building. Address The Pastor.

Ky., Dawson Springs—Baptist Church is reported to be considering erection of Sunday-school addition. Address The Pastor.

Md., Baltimore—Luther Memorial Church, Rev. L. L. Sieber, Pastor, will erect \$100,000 one-story stone church and Sunday-school building, University Pkwy. and Guilford Terrace.

Miss., Aberdeen—Christian Church, Rev. M. F. Harmon, Pastor, will probably let contract in May for erection of \$50,000 building.

Miss., Kosciusko—Methodist Episcopal Church, South, Rev. A. S. Raper, Pastor, has plans under consideration for erection of \$40,000 to \$50,000 building; 3 stories, brick or concrete; will be able to give additional information in 2 weeks. (Lately noted.)

Miss., Tehula—Methodist Church, Rev. S. Curtis Yates, Pastor, will soon announce selection of architect to prepare plans for \$30,000 building; brick with stone trim, 2 stories, 60x110 ft., hardwood and concrete floors, concrete foundation, metal ceilings, ventilators, wire glass, rolling partitions. Address G. W. Gwin, Tehula. (Lately noted.)

Miss., Tusculum—First Methodist Church will erect \$75,000 building. Address The Pastor.

Mo., Columbia—Presbyterian Church on Missouri is reported to be considering erection of church and social center buildings at University of Missouri. Address The Pastor.

Mo., Joplin—Bethany Presbyterian Church, Rev. E. W. Love, Pastor, will erect 40x72-ft. brick building, 20th St. and Virginia Ave.; 2½ stories and basement; 60x74 ft., wood floors, concrete foundation, hollow tile, roll-partitions, wire glass, cost about \$40,000; A. O. Clark, Archt., Rogers, Ark.

N. C., Charlotte—St. John's Baptist Church, Rev. Jos. A. Gaines, Pastor, will erect \$200,000 building on Hawthorne Lane.

N. C., Burlington—Protestant Episcopal Church of the Holy Comforter, Rev. Thos. F. Ople, Rector, plans to erect parish house; C. C. Benton, Archt., Wilson, U. C.

N. C., Charlotte—St. John's Baptist Church, Rev. Jos. A. Gaines, Pastor, plans to start construction of brick building on Hawthorne Lane about May 15; stone trim, 3 stories, cost \$150,000 or more; other details not determined; J. M. McMichael, Archt., Charlotte.

N. C., Hickory—Highland Baptist Church, Rev. H. C. Whitener, Pastor, will erect \$10,000 Sunday school addition.

N. C., Rockwell—Reformed Church will erect building on site of present frame structure. Address The Pastor.

S. C., Barnwell—Willis Irvin, Augusta, Ga., is preparing plans for erection of \$35,000 church building and bids will be due about June 1; common brick on hollow tile, tile roof, 1-pipe heating system, electric lights; auditorium to seat 500, exclusive of

balcony; Sunday school rooms in basement and at rear.

S. C., Seneca—First Baptist Church, Rev. Laurin H. Gardner, Pastor, W. C. King, member Bldg. Comm., will erect \$50,000 building. (Noted March 27.)

S. C., Spartanburg—Lockwood, Green & Co., Archts., 24 Federal St., Boston, Mass., and Spartanburg, will open bids April 3 for construction of foundation for \$300,000 building for First Presbyterian Church, A. M. Law, Chmn., Bldg. Comm., and foundation for \$100,000 Black Hospital, and will probably let joint contracts. (Former noted March 13.)

S. C., Williston—Baptist Church, Rev. W. R. Davis, Pastor, will open bids about May 1 for erection of building; cost \$40,000, common brick on hollow tile, tin doors, 1-pipe heating system, electric lights; auditorium to seat 500 exclusive of balcony; Sunday school rooms in basement and at rear; Willis Irvin, Archt., Augusta, Ga. (Lately noted.)

Tenn., Nashville—McFerrin Memorial Methodist Church has completed plans for erection of \$26,000 Sunday-school annex in rear of present building, Meridian and Foster Sts.; construction will probably start in 90 days; address The Pastor.

Tex., Austin—University Presbyterian Church, Dr. R. A. Law, Chmn. Bldg. Comm., 2614 Salado St., plans to erect building but advises plans are indefinite; some tentative plans have been drawn but practically no details worked out.

Tex., Dallas—Exposition Park Baptist Church, Rev. W. H. Baker, Pastor, plans to erect \$50,000 building to replace burned structure.

Tex., Hamilton—First M. E. Church, South, R. B. Miller, Chmn. Bldg. Comm., will erect 2-story brick veneer building; Wm. C. Meador, Archt., Dan Waggoner Bldg., Fort Worth, Tex.; bids opened April 1.

Tex., Luling—Baptist Church will erect addition to building. Address The Pastor.

Tex., Lufkin—First Baptist Church, Rev. J. R. Nutt, Pastor, plans to erect \$75,000 building.

Tex., San Antonio—I. Arbetter is Chmn. of Bldg. Comm. to remodel and erect additions to Jewish Synagogue, Guilbeau and Aubrey Sts.

Tex., Sweetwater—First Baptist Church is erecting \$40,000 building; main auditorium to seat 1000, Sunday school 1200; T. J. Galbraith, Archt., Dallas, Tex.

Va., Danville—Church of the Sacred Heart, Rev. A. J. Halldel, Pastor, advises report to the effect that a new church and Sunday school would be erected were erroneous.

Va., Lexington—Associate Reformed Presbyterian Church will erect \$25,000 building. Address The Pastor.

Va., Newport News—Calvary Baptist Church will have plans ready May 1 for bids on erection of brick and stone Sunday school building; cost \$45,000, 3 stories, wood and concrete floors, concrete foundation, metal ceilings, rolling partitions, composition and slate roof; bids desired on heating plant; address Herbert L. Cain, Archt., 501 Grace St., Bank & Trust Bldg., Richmond, Va.

Va., Norfolk—Central M. E. Church plans to erect building. Address The Pastor.

Va., Norfolk—Luther Memorial Church plans to erect building. Address The Pastor.

Va., Norfolk—South Norfolk Christian Church, Rev. O. D. Poythress, Pastor, contemplates erection of \$40,000 building.

Va., Roanoke—Melrose Baptist Church will have plans ready May 1 for bids on erection of stone, brick and concrete church and Sun-

day school; cost \$100,000, hardwood and concrete floors, concrete foundation, composition roof, hollow and interior tile, ventilators, rolling partitions; bids desired on heating plant; address Geo. E. Trout, Roanoke. (Lately noted.)

W. Va., Bluefield—Westminster Presbyterian Church, D. W. Hancock, Chmn. Bldg. Comm., will have plans ready about April 15 for bids on erection of brick, stone and concrete building; Colonial type, cost about \$100,000, 3 stories, hardwood, concrete and tile floors, concrete foundation, composition roof, hollow and interior tile, ventilators; separate bids for heating, plumbing and wiring; Herbert L. Cain, Archt., 501 Grace St. Bank & Trust Bldg., Richmond, Va. (Previously noted.)

W. Va., Fairmont—Highland Avenue M. E. Church at Bellview, W. C. Layman, member campaign Comm., plans to erect building.

W. Va., Huntington—Holiness Mission will erect church building at 5th St., West, and Ohio River bank. Address The Pastor.

W. Va., Huntington—First Presbyterian Church, Harry S. Irons, member of Official Board, will erect \$100,000 building; 3 stories, 50x80 ft.; gymnasium; Robt. L. & Sidney L. Day, Archts, Huntington.

City and County

Ark., Hot Springs National Park—Municipal Auditorium—F. Leslie Body, Mgr., Chamber of Commerce, advises matter of erecting municipal auditorium to seat 5000 has been held up pending election; architect not selected. (Previously noted.)

Ark.-Tex., Texarkana—City Hall—City is considering calling \$250,000 bond election to provide for erection of city hall at 3rd and Walnut Sts., Arkansas side. Address The Mayor.

Fla., Arcadia—Jail—W. B. & W. D. Talley, Archts., Lakeland, Fla., advise date of receiving bids for construction of DeSoto County jail has not yet been set; cost about \$40,000; A. L. Durrance, Clk. Board of Commrs., Arcadia. (Noted Jan. 31 to open bids Feb. 23.)

Fla., Bartow—Municipal Auditorium—City Commrs., R. B. Huffaker, Mayor Commr., will receive bids until April 21 for erection of municipal auditorium (excepting electric wiring, heating and ventilating), cost about \$60,000, 75x125 ft., concrete floors, hollow and interior tile, composition roof, plans and specifications on file at office City Mgr. and may be had from W. B. & W. D. Talley, Archts., Lakeland, Fla. (Lately noted.)

Fla., Jacksonville—Police Station—City, John T. Alsop, Jr., Mayor, sold present police station property, Forsyth and Newman Sts., with provision enabling it to be used for 1 year, and will erect new structure.

Ky., Catlettsburg—Community Building—City will erect \$15,000 community building. Address The Mayor.

La., Baton Rouge—Fire Station—City, W. P. Burden, Sec., is receiving bids for erection of St. Ferdinand St. Fire Station; cost about \$50,000; date of opening not set; W. T. Nolan, Archt., Canal-Commercial Bldg., New Orleans, La. (Lately noted.)

La., Shreveport—Municipal Auditorium—City, L. E. Thomas, Mayor, is considering purchase of site on Grand Ave. and erection of municipal building.

Md., Frederick—Stadium—City has started construction of stadium to seat 1200 in Agricultural Park. Address The Mayor.

N. C., Durham—Home—Durham County, C. M. Euler, Mgr., will have plans out after April 7 for erection of brick county home; cost about \$100,000; 2 stories with offices on

first floor and infirmary and superintendent's quarters on second; 1 wing to accommodate 40 white and 1 to accommodate 20 colored inmates; G. Murray Nelson, Archt., Durham and Raleigh, N. C. (Previously noted.)

N. C., Rocky Mount—Fire Station—City plans to vote on \$385,000 bonds, including bonds for fire house.

N. C., Mechanicsville (R. R. Station High Point)—Fire Station—City, E. K. Ingram, member High Point City Council, is considering erection of fire station on N. Main St.

Tex., Crockett—Auditorium and Library—City has plans by Theo. S. Maffitt, Palestine, Tex., for erection of \$25,000 city auditorium and library. (Lately noted.)

Tex., Grosbeck—Fire Station—W. H. Jones advises city has no present plans for erection of fireproof fire station.

Tex., Houston—Municipal Auditorium—City, O. F. Holcombe, Mayor, will vote April 26 on \$1,650,000 bonds, including \$100,000 to improve and enlarge municipal auditorium, Main and Capitol Sts. (Previously noted.)

Tex., Marshall—City Hall—City, H. C. Rice, City Sec., will probably open bids in fall for erection of fireproof city hall building in Public Square; 2 stories and basement cost about \$125,000, metal ceilings and doors, vaults, ventilators, vault lights, steel sash and trim; concrete floors; E. G. Lancaster, Archt., Marshall. (Lately noted.)

Va., Cherrydale—Jail—Arlington County, Capt. E. C. Turnburke, Chmn., Board of Supervisors, Cherrydale, contemplates erection of jail to accommodate 75 to 100 male female and juvenile inmates; tentative plans, estimates and other necessary information desired by Board through Capt. Turnburke.

Va., Hopewell—Courthouse and Jail—City, Mrs. Ollie L. Thurston, Clk. of Common Council, is considering calling election on \$50,000 courthouse and jail bonds.

Va., Richmond—City Hall Annex—City will remodel Mechanics' Institute Bldg., 11th and Broad Sts., for city hall annex. Address The Mayor.

W. Va., Kingwood—Jail—Preston County will erect \$80,000 to \$100,000 jail. Address County Commrs. (Previously noted.)

Dwellings

Ala., Bessemer—Chamber of Commerce is interested in erection of 2 model homes, 1 for white and 1 for colored.

Ala., Florala—T. J. Britton will remove residence at Lakewood noted burned.

Ala., Florala—J. E. Waters will rebuild residence at Lakewood noted burned.

Ala., Selma—Church St. Methodist Church, W. R. Jordan, Chmn. Bldg. Comm., will erect parsonage.

Ark., Little Rock—K. E. N. Cole will erect \$10,000 brick residence, 4215 Lee Ave.

Fla., Clearwater—Mayor Frank J. Booth will remodel brick residence; erect second story, stucco exterior; Spanish tile roof.

Fla., Fort Pierce—Wm. Thompson, River Drive, Fort Pierce, will call for bids about April 20 for erection of tile and stucco residence; 2 stories, 50x70 ft., white oak floors, concrete foundation, hollow and interior tile, tile and built-up roof, clothes chutes, electric lighting and electric heating; John N. Sherwood, Archt., Miami, Fla., and Fort Pierce. (Lately noted.)

Fla., Jacksonville—Better Homes Co. will erect \$14,500 dwelling on Oak St. near Talbot St.; 2 stories, tile and frame.

Fla., Miami Beach—Bay Biscayne Island Co. will erect \$10,000 dwelling on Cocanut Lane; August Geiger, Archt., Miami Beach.

Fla., Miami—Peter Albani will erect Italian renaissance type residence, S. W. 10th St., Ohio Grove; reinforced concrete and tile, tile roof, tile bath, cost \$18,000; J. C. Gault, Archt., Miami.

Fla., Miami Beach—City Builders' Finance Co. will erect 2-story \$12,000 dwelling, 15th St. and Drexel Ave.

Fla., West Palm Beach—Victor Cerabone, 2067 Broadway, New York City, advises he has not decided whether he will go ahead with plans to erect residence at Olympia, as lately noted.

Ga., Savannah—Mrs. Ella J. Ellzey will erect 2-story residence on E. 33rd St. near Live Oak Ave.

Ky., Blackey—Blackey Coal Corp. will erect 10 miners' houses; contract in 2 weeks.

Ky., Blue Diamond—First Creek Coal Co. will erect 10 miners' houses; contract in 2 weeks.

Ky., Harlan—Letcher Coal Mining Co. will erect 12 miners' houses this spring at Elsie Coal; contract within 3 weeks.

Ky., Ulvah—Ulvah Coal Co. will erect 10 miners' houses; contract by April 15.

La., Baton Rouge—F. W. Cook will erect 2-story residence on Vanderbilt Drive.

La., Baton Rouge—C. L. Garland contemplates erecting residence in Roseland Terrace.

La., Baton Rouge—D. B. Randall, care Randall & Thompson, will erect Dutch Colonial type residence in Standard Heights.

La., Baton Rouge—Geo. A. Thompson will erect English type residence in Standard Heights.

La., Baton Rouge—Dr. E. M. Violet, care Louisiana State University, will erect English type cottage on Vanderbilt Drive.

La., New Orleans—A. Aronson will erect 4 single cottages, Pritchard, Joliet and Leonidas Sts.

La., New Orleans—Ed. L. Markel, Archt.-Contr., is preparing plans for about 20 dwellings, including \$10,000 stucco residence with raised basement to be erected for himself at Tonti St. and Napoleon Ave.

La., New Orleans—Chris Larsen will erect \$10,000 double cottage, Gen. Pershing, Clara and Willow Sts.

Md., Baltimore—Highland Home Building Co., Esther Place, will erect 19 two-story brick dwellings, 3601-37 E. Fayette St. and 18 at 3602-36 Esther Place; each 15x38x31 ft.; total cost \$75,000.

Md., Baltimore—Caroline Hilbert, 204 N. Milton Ave., will erect \$10,000 residence, west side Hunting Place near Edmondson Ave.; 1 story, 33x39x28 ft., frame.

Md., Baltimore—Oliver F. Strayer, 202 Edgevale Rd., will erect 2-story, hollow tile dwellings, N. W. Cor. Elmwood and Edgevale Rds.; 48x28x26 ft., cost \$12,000.

Md., Baltimore—Burtis Buffett, Fayette and Green Sts., will erect \$30,000 residence on Overhill Rd., Guilford.

Md., Baltimore—Philip S. Brumfield purchased lot on Green Spring Ave. adjoining Children's Hospital School and will erect 2½-story residence; 12 rooms and 2 baths.

Md., Baltimore—Geo. M. Hampson, Archt. and Bldr., 10 E. Fayette St., will erect 4 two-story brick dwellings, S. W. cor. Rosedale and Brighton Aves.; total cost \$12,000.

Md., Baltimore—Jas. E. Donnelly Building Co. will erect 7 two-story brick dwellings, 4217-29 Potter Ave., and 2 at N. W. cor. Potter and Yale Aves.; total cost \$45,000.

Md., Baltimore—Harlem Building Co. will erect 20 2-story brick dwellings on north side and 14 on south side of Arunah Ave. near Warwick St.; total cost \$135,000.

Md., Baltimore—Thos. L. Kelley, 213 N. Port St., will erect residence in Beverly Hills.

Md., Baltimore—George E. Saulsbury, Continental Bldg., will erect residence, north side Greenway, near Charlcote Place.

Md., Baltimore—Wm. F. Mylander, 2126 Bolton St., will erect 3 two-story brick dwellings and garage on E. side Monroe St. north of Saratoga St.; each 16x32x30 ft.; total cost \$10,000; Fredk. E. Beall, Archt., 306 St. Paul St., Baltimore.

Md., Baltimore—Isaac C. Rosenthal, Bldr., 3411 Holmes Ave., will erect 5 brick dwellings, south side Harlem Ave. near Rosedale Ave., 19 near N. W. cor. Harlem and Longdow Aves. and 17 near N. W. cor. Rayner and Longwood Aves.; 2 stories, each about 15x41x24 ft.; total cost \$200,000.

Md., Baltimore—Wm. H. Uphoff, 417 N. Kenwood Ave., will erect residence in Beverly Hills.

Mo., Independence—H. B. Jacobs will erect residence on Linden Ave.

Mo., Independence—Geo. E. Jones will erect residence on Chrysler St. near Walnut St.

Mo., Independence—W. H. Waggoner Estate will erect dwelling on Osage St., near Pacific St.

Mo., Independence—Albert H. Webbink will erect stucco residence on Noland St.

Mo., Kansas City—Ward H. Webb, Vice-Pres., Gray Advertising Co., will erect Colonial residence, Huntington Rd. near 61st St., Stratford Gardens.

N. C., Charlotte—W. H. Belk will erect \$50,000 residence on Hawthorne Lane; Chas. C. Hook, Archt., Charlotte.

N. C., Durham—H. W. Boring will erect \$20,000 residence on Minerva Ave.

N. C., Durham—A. W. Hawkey will erect 2 dwellings on Chester St.

N. C., Durham—F. G. Satterfield will erect 4 dwellings on Hunt St.

N. C., Durham—Virgil Bresnell will erect three \$5000 dwellings, 711-15 Kingston Ave., 6 rooms each.

N. C., Durham—J. W. Moore will erect \$10,000 residence.

N. C., Durham—J. D. Satterfield will erect \$20,000 residence on Mangum St.

N. C., Greensboro—Elwood Mitchell will erect \$11,000 seven-room residence on Keogh St.

Okla., Okmulgee—Dr. M. D. Carnell will erect \$10,000 residence; 1 story, 50x60 ft.; Smith & Senter, Archts., 401 Commerce Investment Bldg., Okmulgee.

Okla., Pawhuska—Geo. Labadie, Pawhuska, has completed plans for ranch and summer home in N. E. section of Osage county; plans include artificial lake stocked with fish.

S. C., Columbia—E. W. Robertson will erect brick residence, Seneca and Edisto Aves., Wales Gardens; 2 stories and basement, with garage attached, stone trim, slate roof, hot water heat; Jas. Brite, Archt., New York City, present address Columbia; bids opened April 1.

Tenn., Memphis—Grover C. Marsh purchased 4-acre site on west side Perkins Ave. near Poplar Pike and plans to erect residence.

Tex., Cuero—M. D. Bennett will erect \$15,000 residence; brick and plaster, tile roof; Alfred Gilles Co., Archts., Moore Bldg., San Antonio, receiving bids.

Tex., Dallas—H. B. Lock will erect \$10,000 English type residence in 3600 block Pottomac Ave.; 1 story, brick veneer, 7 rooms; garage and servants' quarters; W. Scott Dunne, Archt., Dallas.

Tex., Dallas—John Atkins will erect \$15,000 residence, 901 Cedar Hill; 10 rooms, brick veneer.

Tex., Dallas—Hancock Bros. will erect \$17,500 residence, 5819 Swiss St.; 9 rooms, brick veneer.

Tex., Dallas—N. M. Harper will erect 4 five-room cottages, 2214-15-18-19 W. 10th St.; brick veneer, cost \$4500 each.

Tex., Dallas—Hal Moseley will erect \$17,500 residence, 6664 Avalon St.; 8 rooms, brick veneer.

Tex., Electra—B-C-H-K Improvement Co., 211 Bashara Bldg., P. G. Krohn, Pres., will erect number of small dwellings.

Tex., Plainview—J. W. Boyle will erect 5 or 6 room residence on 10-acre tract north of high school.

Tex., Plainview—W. L. Williams will erect 6-room dwelling in east end Highland Park addition.

Tex., Palestine—D. D. Jones will erect residence; Theo. S. Maffitt, Archt., Palestine.

Tex., Palestine—M. Milton will erect residence; Theo. S. Maffitt, Archt., Palestine.

Tex., San Antonio—W. W. Bailey, 246 St. Francis St., will erect residence, south side Carroll Ave. near Garland St.

Tex., San Antonio—E. S. Barrow has postponed erection of residence noted March 20; Adams & Adams, Archts., Gibbs Bldg., San Antonio.

Tex., San Antonio—Rogers-Hill & Co., Bldrs., will soon start construction of number of tile, brick and stucco dwellings in Monte Vista Division; cost about \$15,000 each; total cost about \$350,000.

Tex., San Antonio—F. M. Daugherty, 622 Carson St., is having plans prepared for erection of 6-room bungalow in Woodlawn Hills.

Tex., San Antonio—J. A. Flack, 521 W. Craig Place, will erect bungalow in 1500 block W. Woodlawn Ave.

Tex., San Antonio—Alex Folts, 622 Carson St., will erect bungalow in Woodlawn Hills during year.

Tex., San Antonio—J. B. Folts, 622 Carson St., will erect residence in Woodlawn Hills during year.

Tex., San Antonio—T. O. Folts, 622 Carson St., will erect 6-room bungalow in Woodlawn Hills; cement and brick.

Tex., San Antonio—B. B. McGimsey, Alamo Foods Co., will erect residence in Milton Place, Terrell Hills.

Tex., San Antonio—Dr. H. A. Phillips will erect 6-room frame cottage on Terrell Hills; Chas. T. Boelhaue, Archt., City National Bank Bldg., San Antonio; bids opened.

Tex., San Antonio—Mrs. Beulah Brice will erect \$12,000 residence on Monte Vista; 2 stories, brick and concrete; Will N. Noonan, Archt., Moore Bldg., San Antonio.

Tex., San Antonio—Graham Dowdell will erect \$25,000 residence; 2 stories, hollow tile and stucco, cash stone trim, tile roof; Ralph H. Cameron, Archt., 1115 City National Bank Bldg., San Antonio.

Tex., San Antonio—O. L. Fortman will erect \$14,000 tile and stucco residence in Monte Vista; Will N. Noonan, Archt., Moore Bldg., San Antonio; following are low bids: K. G. Granberg on gen. contr., \$16,640; Jud & Ormond, plumbing, \$1217, and heating, \$716.

Tex., San Antonio—Chas. Guilhem, care New York Buyers Assn., will erect \$22,000 residence on Summitt Place; 2 stories, 12 rooms, brick and concrete; L. Harrington & Co., Archts.-Engrs., Houston Bldg., San Antonio.

Tex., Taylor—Ira Forsom will erect \$10,000 residence; 1 story, frame, 6 rooms, Arcola system of heat; R. Vander Straten, Archt., Hicks Bldg., San Antonio, Tex.

Tex., Uvalde—Hershel Ray will erect brick residence; Morris & Noonan, Archts., Engrs., Houston Bldg., San Antonio.

Va., Chatham—Watson Memorial Methodist Church contemplates erection of parsonage. Address the Pastor.

W. Va., Weston—Spriggs Lumber Co. will erect 6 cottages on Cottage St.

Hospitals, Sanitariums, Etc.

Ala., Birmingham—Jefferson County, Lacey Edmondson, member, Board of Revenue, has instructed H. B. Wheelock, Archt., Birmingham, to prepare plans for erection of addition to Hillman Hospital; cost about \$500,000, including equipment; will probably vote on bonds in May. (Lately noted.)

Ark., Hot Springs National Park—Sisters of Mercy, care Sister Bernard, will erect \$200,000 six-story annex to St. Joseph's Infirmary to face on Whittington Ave.; 100-bed capacity, fireproof, reinforced steel and concrete faced with brick, terra cotta trim; 2 major and 1 minor operating rooms, screened and glass-enclosed flat roof, dietary kitchen on each floor and general commissary and kitchen, administration rooms on first floor; will probably select architect within few days; upon completion of annex, upper stories of present structure will be demolished and first floor remodeled for gymnasium and have fireproof roof.

Fla., Jacksonville—Duval County, Richard P. Daniel, Chmn., Duval County Welfare Board, is having plans prepared by H. J. Klutho, Jacksonville, for remodeling present tuberculosis hospital to serve for general hospital purposes and erection of additions for tubercular patients with separate quarters for male and female; cost \$175,000 to \$200,000; brick, hollow tile and reinforced concrete construction, 2 and 3 stories, Marbleoid and cement floors, concrete foundation, superior tile, ventilators, extra heavy composition shingle roofs. (Lately noted.)

Ky., Dawson Springs—A. E. Orton, Dawson Springs, Pres., Promotion Comm., of National Hospital of the Church of Christ, advises there is no additional information at present regarding erection of \$1,000,000 hospital noted Dec. 13.

Ky., Pikeville—United States Veterans Bureau, L. H. Tripp, Ch. Constr. Div., advises matter of awarding contract for construction of buildings for trachoma hospital noted Feb. 21 is under consideration.

La., Baton Rouge—General Hospital is reported to remodel and enlarge building.

Okla., Kingfisher—Dr. J. W. Pendleton will remodel old Spiece property on S. 6th St. for hospital.

S. C., Newberry—Newberry County Hospital Assn., Geo. B. Cromer, Pres., has selected Jas. C. Hemphill, Greenwood, as architect for \$40,000 to \$50,000 hospital. (Previously noted.)

Tenn., Chattanooga—City will have plans completed within a few days by R. H. Hunt Co., James Bldg., Chattanooga, for erection of \$100,000 nurses' home at Erlanger Hospital; 4 stories, including basement, combination roof garden and sun parlor; gymnasium, laundry room with 3 washtubs and electrical equipment, general shower and washroom on second and third floors; will probably soon let contract. (Lately noted.)

Tex., Beaumont—W. B. Dunlap, Jr., & Jas. E. Ray will erect 3-story hospital; brick and concrete construction, Livesay & Wiedeman, Archts., Beaumont. (Previously noted.)

Mo., St. Louis—Graham, Anderson, Probst & White, Archts., 80 E. Jackson Blvd., Chicago, Ill., advise no contracts for erection of 7-story building for Jewish Hospital have been let; Aaron Waldheim, Chmn. Hospital Board, St. Louis. (Noted March 13.)

Okla., Fort Sill (Ind. Branch Lawton)—Quartermaster General, Washington, D. C., rejected bids for erection of 2-story hospital ward of concrete, brick, tile and stone, about 57x52 ft., and are reported to receive new bids later. (Lately noted.)

Tex., Beaumont—W. B. Dunlap, Jr., and James E. Ray plan to erect 3-story and basement hospital; brick, stone and reinforced concrete, fireproof; Livesay & Wiedman, Archts.; W. C. Tyrell, L. L. Ryder and W. P. H. McFadden, temporary trustees, all Beaumont.

Tex., Hereford—Deaf Smith County Commsrs., Court, W. M. Megert, Judge, will receive bids until April 14 for erection and completion of county hospital lately noted; cost about \$50,000, 2 stories, 109x35 ft., brick and reinforced concrete, tile, Magnestone and concrete floors, concrete foundation, built-up Barrett roof, interior tile, wire glass, vapor vacuum system of steam heat, 4 baths, surgeon's wash-up, lavatories, kitchens, etc.; plans and specifications from J. C. Chisum & Son, Archts., Altus, Okla.; separate bids for plumbing and heating. (See Mch. Wanted—Stone.)

Tex., Kerrville—American Legion Memorial Sanatorium will receive bids until April 18 for erection of 2-story recreation building; plans from Phelps & DeWees, Archts., 718-24 Gunter Bldg., San Antonio, Tex.

Tex., Palestine—Theo. S. Maffitt, Palestine, prepared plans for nurses' home at International-Great Northern Railroad Hospital; 2 stories, hollow tile, concrete foundation, face brick exterior, cost about \$15,000; bids opened March 31.

W. Va., Charleston—Community Hospital Assn., C. E. Kimbrough, Sr., Pres., organized with \$50,000 capital and will remodel building at Shrewsbury and Lewis Sts. for colored hospital; about 50 beds.

W. Va., Charleston—Charleston County Tuberculosis Assn., Dr. C. W. Kollock, Chmn., will probably construct Charleston County Tuberculosis Sanatorium; \$30,000 appropriation available.

Hotels and Apartments

Ala., Foley—Beverly Realty Co., Inc., W. R. Helle, Pres., expects construction to start within 60 days on 26-room hotel and 20 non-housekeeping cottages adjacent; Bosworth Smith, Montgomery, will have charge of construction.

Ala., Lafayette—Webster McRae contemplates immediate erection of hotel to contain 24 rooms, lobby, dining room, kitchen, sample room, and ladies' rest room, steam heat.

Ala., Sheffield—Owners of Colbert County Hotel Co. contemplate erection of 2 additional stories to Sheffield Hotel.

Ark., Arkansas City—Osage Hotel contemplates erection of 2 additional stories to provide 48 more rooms.

Ark., Little Rock—Rackensack Apartment Corp., Chas. M. Bryan, Pres., Memphis, Tenn., contemplate erection of 7-story efficiency apartment building at Fourth and Hill Sts., to cost \$400,000; will contain 52 apartments of 2 and 3 rooms each; lobby on first floor with 2 parlors in connection; in basement will be vapor heating system, refrigerator plant, etc.; freight and passenger elevators; reinforced concrete with exterior faced with brick and trimmed with terra cotta; interior of fireproof materials; will be financed by Fidelity Bond & Mortgage Co., St. Louis, Mo.; Wittenberg, Delony & Watts, Archts., Little Rock, will complete plans early next month and construction will start immediately afterward.

Fla., Miami—Alvin Sammons has plans by W. F. Brown, Miami, to erect apartment house on Pennsylvania Ave., between Ninth and Tenth Sts., to cost \$24,000.

Fla., Miami—W. W. Shipp has purchased 2 lots in Riverside on S. W. Fourth St. between Ninth and Tenth Aves., and will soon start construction of 2-story concrete apartment house to cost \$26,000; 42x74 ft. and contain 8 apartments.

Fla., Miami—C. E. Bailey has plans by J. C. Gault, Miami, for erection of 3-story apartment house on S. W. Seventh St. near Fourth Ave. to cost \$35,000; reinforced concrete and hollow tile construction, tile roof coping, Spanish architecture, iron balconies, contain 18 apartments, 6 on each floor.

Fla., Miami—Wm. R. Butler, owner of Kentucky Home, at 1221 N. E. First Ave., has plans in progress by Edwin A. Nolan, Inc., Miami, for erection of \$40,000 3-story building; present building will be moved to back of lot; 34x104 ft.

Fla., Miami—J. M. Manheimer, owner of Shady Lawn Hotel, Cambridge Springs, Pa., contemplates erection of \$160,000, 3-story hotel on site of Miramar Inn; fireproof; contain 61 rooms, lobby 27x40 ft., porch 20x40 ft., which can be converted into ballroom, dining room to accommodate 200 people; Jno. N. Bullen, Archt., Miami.

Fla., Orlando—C. A. Roberts contemplates erection of \$100,000 hotel on West Central Ave.; 1507x11 ft., first floor for store and offices and second and third to contain 72 rooms each equipped with shower bath; exterior of buff brick trimmed with stone.

Fla., Orlando—J. L. Butler is reported to contemplate erection of \$100,000 hotel on West Central Ave.

Fla., Vero—Palmetto Hotel Co. has plans in progress by Jno. N. Sherwood, Miami and Fort Pierce, Fla., for erection of 22-room addition to present building; cost \$12,000; frame, stucco, built-up roof, concrete foundation, baths, showers, etc.; Bids about April 20-24. (Lately noted.)

Ga., Dublin—Chamber of Commerce has contracted with Hockenbury System, Inc., Harrisburg, Pa., to make survey for proposed erection of hotel.

Ky., Louisville—Tippett & Walker will erect film exchange and brick apartment at 611 South First St., to cost \$20,000; 2 stories and contain 8 apartments.

Ky., Owensboro—W. T. Bertram contemplates erection of \$12,000 apartment house at Third and Lewis Sts.

La., Bunkle—Bailey Hotel plans erection of 16 additional rooms and have every room provided with bath; address The Proprietor.

La., New Orleans—Miss Margaret Perce contemplates erection of apartment house on Clairborne Ave.

Md., Hagerstown—Colonial Hotel Co. has purchased David P. Schindle drug store property, on South Potomac St., as site for hotel building.

Mo., Joplin—H. R. Valfer contemplates erection of 3-story apartment house to house 39 families at corner Second St. and Byers Ave.; cost \$125,000; 125x135 ft.; in shape of a double "L"; each apartment will be 4 and 5 room efficiencies; C. H. Sudhoiter, Archt., Joplin.

Mo., Kansas City—Kelley Realty Co., D. L. Kelly, Pres., has purchased tract of land at N. E. corner 46th and Main Sts.,

extending eastward to Walnut St. and northward along Main 238 ft., and contemplate apartment development to start this week; plans call for 7 buildings, three 30-family structures will front on Main and three 12-apartments on Forty-sixth, on corner will be 4-story building containing 60 apartments; Luther Orville Willis, Archt., Kansas City, Mo.

Mo., Moberly—A. C. Sibbitt, owner of Baltimore Hotel Building, is planning to convert into 10 or 12-apartment house.

Okla., Pauls Valley—Owners of Globe Hotel, recently destroyed by fire, are reported to contemplate rebuilding.

S. C., Florence—Chamber of Commerce is promoting erection of hotel; Hockenbury System, Inc., F. E. Downs, has made survey. (Lately noted.)

Tenn., Memphis—Dave Dermen has purchased lot at s. w. cor. Poplar Ave. and Rembert Place and contemplates erection of 12-apartment building, to cost \$50,000; 85x150 ft., brick construction, 12 suites of 4 rooms and bath each; W. C. Lester, Archt., Memphis.

Tex., Dallas—T. B. Baker, San Antonio, has selected Herbert S. Green, Alamo Natl. Bank Bldg., San Antonio, to prepare plans for erection of 600-room hotel on site of Oriental Hotel; cost \$3,000,000; construction may begin in fall. (Lately noted.)

Tex., Nocona—M. F. Ball has started construction of Millstone Hotel; ground floor will be occupied by barber shop, drug store, lobby, office, cafe, dining room and kitchen; 50x140 ft.

Tex., San Antonio—W. N. Robinson recently purchased St. Anthony Hotel and is reported to contemplate erection of brick addition to contain 75 rooms.

Va., Marion—W. R. D. Moncure and others compose committee appointed to take initial steps and make early report as to ways and means of erecting hotel building.

W. Va., Parkersburg—Parkersburg Hotel Co., E. A. Brast, Pres., will soon let contract for erection of 7-story addition to Chancellor Hotel; 79 ft. on Seventh St. and extend back 170 ft.; contain 139 rooms.

Miscellaneous

Ala., Phoenix City—C. M. Gardner has announced plans are in progress for erection of old people's home and employment bureau by the Phoenix City Volunteers of America.

Ala., Selma—Home—Board of Alabama Methodist Orphanage, Rev. D. M. Curtis, Greensboro, and others, contemplate erection of \$25,000 residence to be first step toward cottage plan; address C. W. Northcutt, Supt.

Ark., Little Rock—Arkansas State Fair, Mayor Ben D. Brickhouse, Pres., contemplates expenditure of about \$300,000 for erection of Exhibit Buildings; light steel, brick and stucco construction; Public Utilities Co., will erect \$35,000 building; Arkansas Power Co., will erect Main Entrance Building; Negro Chamber of Commerce will erect building for negro exhibits; Pierce & Robinson, of Chicago, Ill., Des Moines, Iowa, and St. Louis, Mo., are preparing plans. (Lately noted.)

Fla., Hobe Sound—Olympia-Hobe Sound Yacht Club, Commodore Thos. E. Murphy, West Palm Beach, contemplates erection of yacht clubhouse on Harbor Island.

Ky., Hazard—Dance Hall—Fun-Lan Amusement Co. will erect dance hall and other buildings at cost of \$25,000; contract at once.

La., Baton Rouge—D. E. McInnis contem-

plates erection of brick building on Convention St., to cost \$32,000.

Ky., Louisville—E. M. Nuchols contemplates erection of stone veneer building at Eastleigh and Barnes Sts. to cost \$11,000.

La., New Orleans—Clubhouse—Metairie Golf Club will have plans next month by Favrot & Livaudais, Hibernia Bank Bldg., New Orleans, for erection of large 1-story golf clubhouse and minor buildings on Metairie Ridge, to cost \$75,000; main building will be tile and frame stucco.

Md., Baltimore—Clubhouse—Board of Governors of Maryland Country Club, Fred C. Schanberger, Pres., 3906 Liberty Heights Ave., has plans in progress by Geo. R. Callis, American Bldg., Baltimore, for rebuilding clubhouse on old site, Park Heights Ave. and Carroll Road; cost \$100,000; 3 stories, brick or hollow tile construction; to be ready for occupancy by June 15. (Lately noted.)

N. C., Charlotte—Orphanage—Thomason Orphanage, Rt. Rev. E. A. Penick, Chmn., Executive Comm., has plans in progress by M. R. Marsh, Archt., Charlotte, for improvements and expansion; plans include laundry to cost \$10,000; 2 cottages to cost \$21,000; administration building to cost \$35,000; cottage to replace present wooden building; central heating plant.

Okla., Okmulgee—Resort—Chas. E. Douglas has plans in progress by Smith & Senter, Archts., 401 Commerce Investment Bldg., Okmulgee, for erection of amusement park to include dance pavilion 70x100 ft., natatorium 100x200 ft., boat house 40x30 ft., refreshment stands, etc. (Lately noted.)

Tenn., Nashville—W. G. Wallace, J. F. Wallace, Sol Cohn, Emanuel Ferdman and A. J. Linx have purchased Page garage at Fifth Ave. and Commerce St., and contemplate installation of auditorium on upper floors for public entertainment.

Tex., Austin—Stadium—Executive Council, Wm. M. McGill, owner has plans in progress for erection of reinforced concrete stadium at Breckenridge Field, to cost \$500,000 or more; seating capacity about 51,000; Herbert M. Greene Co., Archts., 620 North Texas Bldg., Dallas.

Tex., Dallas—D. and K. David contemplates erection of 3-story reinforced concrete building at 2201-03 Griffin St., to cost \$22,000.

Tex., Dallas—Clubhouse—Finance Comm. of Dallas Athletic Club is trying to secure loan for erection of 5 additional stories to present building; address Tom L. Monagan, Exec. Sec.

Tex., Greenville—Orphanage—Rev. Flavil L. Colley, pastor Church of Christ, announces plans for immediate construction of Boles Orphans' Home; cost \$30,000; 1-story and basement, fireproof.

Tex., San Antonio—Clubhouse—National Golf Assn., L. B. Clegg, Pres., contemplates erection of golf course and clubhouse to cost \$150,000.

Railway Stations, Sheds, Etc.

S. C., Walterboro—Atlantic Coast Line R. R. Co., J. E. Willoughby, Ch. Engr., Wilmington, N. C., will erect freight and passenger station; 152 ft. long, cost \$10,000.

Va., Richmond—American Railway Express Co. opened bids for erection of 3-story structure at Second and Grace Sts.; 30x120 ft.

Schools

Ala., Clayton—School Board is considering erection of high school building.

Ala., Montgomery—Board of Trustees of

State Training School for Girls will erect temporary buildings to relieve crowded conditions.

Ark., Mountain Home—Board of Directors of Mountain Home College, B. A. Spradlin, Harrison, Ark., Pres., plans \$20,000 expenditure for erection of addition to main building and one or two small buildings.

Ala., Orrville—Dallas County Board of Education, Senator Ellis, Pres., Selma, is considering erection of school building.

Ark., Searcy—Galoway College contemplates construction of women's science building; campaign is in progress to raise \$100,000.

Fla., Chipley—Washington County Board of Education, Vernon, is considering erection of high school building.

Fla., Clermont—Lake County Board of Education, Tavares, will open bids April 5th for erection of \$50,000 school building; 1-story, fireproof, hollow tile, 12 rooms and auditorium, concrete foundation, wood flooring, hollow and interior tile, steel sash and trim, rolling partitions, vapor steam heat; Alan J. MacDonough, Archt., Eustis.

Fla., Lake Stearns—School Tax District No. 6 voted \$15,000 bond issue for erection of school building; will contain 4 rooms and auditorium and be first unit of \$50,000 or \$60,000 building. (Lately noted.)

Fla., Ormond—Volusia County Board of Public Instruction, Geo. W. Marks, Supt., DeLand, will open bids April 15 for erection of school building to contain 6 rooms and auditorium.

Fla., Salerno—G. N. Hatch, West Palm Beach, is Chmn. of Board of Trustees, contemplating erection of negro industrial school to be established on 778-acre tract on south fork of St. Lucie River, 3½ miles west of Salerno; will soon start campaign to raise funds; plan to start school on small scale and expand into institution to cost \$250,000; will be known as Florida East Coast Normal & Industrial School.

Ga., Barnesville—Gordon Institute, L. D. Watson, Pres., has plans in progress by Eugene C. Wackendorff, Forsythe Bldg., Atlanta, for rebuilding structure; brick construction, cost \$30,000 to \$40,000. (Lately noted—Destroyed by fire at \$15,000 loss.)

Ky., Dayton—City voted \$25,000 bond issue for erection of school building; \$75,000 also available.

Ky., Paducah—Lone Oak and parts of Lang's Kettler, Massac. and Oak Grove Districts will vote April 30 on bond issue and local tax for erection of school building at Lone Oak. Address J. E. Coleman, Supt. McCracken County Board of Education.

La., Monroe—Parish School Board will call election April 15 to vote on \$125,000 bond issue for erection of school building.

La., Saline—Bienville Parish School Board, Arcadia, selected J. W. Smith, Monroe, to prepare plans for erection of high school building; \$65,000 bonds recently voted.

La., Shreveport—Caddo Parish School Board, B. W. Marston, Pres., purchased 7 lots adjoining Parkview School as site for a 12-room addition, brick construction, cost \$30,000; also authorized similar addition to Alexander school to cost same. (Lately noted.)

La., Ville Platte—Evangeline County School Board contemplates erection of brick school building at Pine Prairie and frame building at Reedton; bids opened April 1st.

Md., Baltimore—Board of Awards, Mayor Howard W. Jackson, Pres., opened bids at office of Frederick A. Dolfeld, City Register, City Hall, for erection of Gwynn's Falls

Park Junior High School; P. C. Street Engineering Co., 406 St. Paul St., Baltimore, was low bidder at \$1,203,242; General Elevator Co., 400 S. Chase St., Baltimore, was low bidder on installation of elevators; Smith & May, Archts.; Henry Adams, Conslt. Mech. Engr.; both Calvert Bldg., Baltimore. (Noted in detail March 6.)

Miss., Meridian—School Board selected Burt Stuart and P. J. Krouse, Meridian, as Archts. for school building program; plans to be in hands of Board by May 1st; F. B. Dresslar, Nashville, Tenn., Conslt. Archt.; new buildings will include junior high school, school in Marion Park, negro school in South Side; repairs and improvements to high school and various ward schools. (Lately noted—voted \$500,000 bond issue.)

Mo., Blue Springs—Blue Springs School District voted \$35,000 bond issue for erection of combination elementary and high school building. (Lately noted.)

Mo., Caruthersville—Caruthersville School District voted \$140,000 bond issue for erection of high school building; H. H. Hohenschilds Co., Archts., Odd Fellows Bldg., St. Louis, Mo. Contract will be let immediately. (Lately noted.)

Mo., Farnfeldt—School Board voted \$22,000 bond issue; \$20,000 will be used for erection of 4-room addition to east ward school and \$2,000 to remodel west ward school.

N. C., Charlotte—Southern Brickmasons' School, B. T. Scruggs, Mgr., Charlotte Labor Temple Bldg., will let contract early in April for erection of 1-story, 200x250 ft. building; contemplate erection of other buildings.

N. C., Gastonia—School Board is considering erection of \$25,000 concrete stadium; contemplate bond issue.

N. C., Mt. Ulla—Rowan County Board of Education, J. C. Sherrill, Chmn., Salisbury, N. C., contemplates erection of 2-story brick and frame school building; L. N. Boney, Archt., Wilmington, N. C. Bids opened April 3.

N. C., Clyde—Clyde Public School Committee will open bids April 11, at store of Edwin Fincher, for erection of 9-room addition and change in present auditorium to public schoolhouse; separate proposals will be received for plumbing and heating; plans and specifications may be secured from School Board or Frank B. Simpson, Archt., Raleigh, N. C.

N. C., Rutherfordton—Rutherfordton County Board of Education has plan in progress by White, Streeter & Chamberlain, Gastonia, N. C., for erection of \$200,000, fireproof, high school building. (Lately noted—voted \$200,000 bond issue.)

N. C., Southport—Brunswick County Board of Education, B. R. Page, Supt., contemplates \$250,000 bond issue for erection of 5 high school and 3 elementary school buildings.

N. C., Wake Forest—Wake Forest College, Dr. W. L. Poteat, Pres., contemplates erection of dormitory, library and other buildings.

N. C., Weeksville—Pasquotank County Board of Public Instruction, M. P. Jennings, Supt., contemplates erection of \$15,000 addition to high school building.

Okla., Guthrie—Board of Education, care Mrs. Louther, Clerk, will receive bids April 21st, for erection of high school building to cost \$190,000; 3 stories, 32 classrooms, auditorium and gymnasium, brick and stone superstructure, reinforced concrete construction, concrete foundation, pitch and gravel roof, oak finish, structural steel, steam heating; Hawk & Parr, Archts., Oklahoma City. (Lately noted.)

Okla., Marland—Consolidated School Dis-

trict No. 2 contemplates erection of \$40,000 school building; concrete and brick, hollow tile, wood floor and roof framing; 134x100 ft. over auditorium, concrete reinforced with steel foundation, 3-ply felt and asphalt roof, metal ceilings, metal doors, concrete and concrete floors; The Weathers Co., Archts., 1006 Oil Exchange Bldg., Oklahoma City. Bids opened April 1st. (Lately noted.)

Okla., Sand Springs—School Board will soon call election to vote on bond issue for erection of junior high school; A. J. Love & Co., Tulsa, is preparing plans.

S. C., Anderson—Anderson County Board of Education is considering erection of high school building in Bushy Creek section to accommodate Airy Springs, Concrete, St. Paul, Three and Twenty and Oak Hill.

S. C., Columbia—University of South Carolina, W. D. Melton, Pres., has started repairing Davis College recently damaged by fire. (Lately noted—\$40,000 loss.)

S. C., Columbia—Benedict College, Rev. Clarence B. Antisdell, Pres., has plans in progress by L. Merrill, 23 East 26th St., New York City, for erection of \$90,000 science building.

S. C., Gaffney—Building Comm. of Limestone College, W. C. Hamrick, Chmn., rejected all bids for erection of Hamrick Science Hall, Carroll School of Fine Arts and President's Home; Wilson, Berryman & Kennedy, Archts., Columbia, S. C., and Wilson and Gastonia, N. C., will revise plans; E. S. Draper, Landscape Archt., Charlotte. (Lately noted opened bids March 27.)

S. C., Greenville—L. P. Hollis, Supt. of Parker School District, will soon award contract for erection of 18-room brick school building for Duncan mill community; J. E. Sirrine & Co. are preparing plans.

S. C., Greenwood—School Board contemplates \$225,000 bond issue for school improvements.

S. C., Maridell—Trustees of Maridell School District contemplate erection of 4-room school building to accommodate pupils of Maridell and Oak Valley; address M. C. Barton, County Supt. of Education, Greenville, S. C.

Tenn., Chattanooga—E. Mennen contemplates erection of 2-story brick storehouse at 1216 East Twelfth St., to cost \$15,000.

Tenn., Hixson—Hamilton County Board of Education, Chattanooga, will open bids April 7 for erection of 2-story and basement addition to high school building; W. H. Sears, Archt., 1102 James Bldg., Chattanooga.

Tenn., Jackson—City, Lawrence Taylor, Mayor, will call election May 1st, to vote on \$890,000 bond issue, \$115,000 for school purposes. (Lately noted.)

Tenn., Jefferson City—Carson-Newman College expects construction to start in 3 weeks on \$25,000 3-story boys' dormitory; Barber & McMurray, Archts., Knoxville, Tenn.

Tenn., Knoxville—T. E. Burns Co., T. E. Burns, Pres., is considering installation of electric dumb waiter, or small elevator to run third floor to sales floor, enlargement of mezzanine floor and installation of soda fountain.

Tex., Athens—Carroll & Lehr contemplate erection of business block.

Tex., Austin—Board of School Trustees, Dr. G. Decherd, Pres., has plans in progress by Glesecke & Harris, Austin, and will award contract about June 15th for erection of 3-story school building to cost about \$210,000; contain 48 rooms, concrete frame, face brick, hollow tile, concrete spot fittings foundation, built-up roof, hardwood and concrete floors, rolling partitions. (Lately noted.)

Tex., Bartlett—School Board will open bids April 9 for erection of additions to high school building; C. H. Leinbach, Archt., Deere Bldg., Dallas.

Tex., Beaumont—Board of Education is calling for bids on architect service to provide plans and specifications for repairs to school buildings; will soon call for bids on curtain and other stage equipment for auditorium of North End junior high school (Lately noted voted \$150,000 bond issue.)

Tex., Dallas—J. E. Burkholder contemplates erection of brick and tile store building at 1324 Burlington St., to cost \$12,000.

Tex., Dallas—Howard D. McElroy contemplates erection of 8-room brick stores and oil station building at 4912-28 Cole Ave. to cost \$20,000.

Tex., Dallas—School Board opened bids for erection of addition to Brown School, Oakland Ave. and Park St.; low bidders are as follows: General construction, W. H. King at \$46,595; Mattyn Bros., plumbing and heating at \$11,946; Clower Electric Co., wiring at \$1139.70; Flint & Broad, Archts., all Dallas. (Lately noted.)

Tex., College Station—Agricultural & Mechanical College of Texas, Board of Directors, contemplate erection of gymnasium to cost \$100,000 and combined hotel and dormitory to cost \$65,000; construction of hotel building will start in 2 weeks and gymnasium will be started later; gymnasium will have seating capacity of between 4000 and 5000 persons; steel and reinforced concrete, stuccoed and have red tile roof; regulation court of inlaid marble for basket ball; hotel will be 2 stories and have space on lower floor for lobby, dining room and barber shop.

Tex., Denton—School Board will call election April 30, to vote on \$25,000 bond issue for equipping Senior High School and purchase of other equipment.

Tex., El Paso—School Board, J. H. McBroom, Pres., petitioned City Council to call election on \$500,000 bond issue. (Lately noted.)

Tex., Franklin—Franklin Independent School District selected C. H. Page & Bro., Austin, to prepare plans for erection of \$50,000 school building. (Lately noted—voted \$50,000 bond issue.)

Tex., Grand Prairie—School Board opened bids April 2 for erection of addition to school building; C. H. Leinbach, Archt., Dallas.

Tex., Houston—W. T. Grant Co. contemplates erection of 3-story reinforced concrete building on Capitol Ave., to cost \$75,000, and have entrance through building on Main St., which will be remodeled.

Tex., Hughes Springs—Hughes Springs Independent School District voted \$27,000 bond issue for school purposes.

Tex., Littlefield—Littlefield Independent School District voted \$80,000 bond issue for erection of high school building; architect has been selected.

Tex., Lufkin—W. M. Glenn & Co., contemplates erection of brick business house on North First St., to cost \$30,000.

Tex., Luling—Luling Independent School District voted \$100,000 bond issue for school improvements. (Lately noted.)

Tex., Kleburg—City voted \$15,000 bond issue for erection of brick and concrete school building, 1-story. Address School Board. (Lately noted.)

Tex., Knox City—Knox City Independent School District has plans in progress by David S. Castle, Abilene, for erection of \$40,000 school building; brick, stone and concrete; 2 stories. (Lately noted.)

Tex., Mabank—School Board, A. M. Johnson, Pres., will open bids this week for erection of brick school building.

Tex., O'Donnell—O'Donnell Independent School District voted \$25,000 bond issue for erection of annex to high school building.

Tex., San Antonio—Students of Main Avenue High School plan erection of gymnasium as a memorial to late Fred Hofstetter; cost \$50,000; brick and reinforced concrete; Harry Rogers, spokesman for the students.

Tex., Taft—Presbyterian Church, Dr. Jno. B. Hudson, Board of Trustees, Victoria, and others, has plans by Jno. M. Marriott Frost Bldg., San Antonio, for erection of 1-story dormitory for Industrial School for Mexican Girls; 14 rooms, 40x100 ft., frame and reinforced concrete, tile or brick walls and stucco, composition roof, plumbing, electric wiring, gas fitting. (Previously noted.)

Va., Harrisonburg—A. Iseman contemplates erection of 3 or 4-story building to replace department store recently destroyed by fire. (Lately noted—loss \$90,000.)

Va., Richmond—E. A. Saunders has plans by Carneal & Johnson, Richmond and is receiving bids for erection of brick and wood store building to cost \$20,000; 40x80 ft., 2 stories, slag roof, wood flooring, concrete foundation, 1 electric elevator.

W. Va., Bluefield—Henry B. Thompson contemplates erection of 3-story brick building on Commerce St. to adjoin present building on Raleigh St.; cost \$15,000.

Stores

Ark., Little Rock—555 Tire & Service Co., Roy Steyben, Mgr., has purchased a quarter block on S. E. Cor. Second St. and Broadway, and has plans in progress by Wittenberg, Deloney & Watts, Little Rock, for erection of 3-story fireproof building; reinforced concrete construction, cost \$125,000, 140x150 ft.; main floor will be occupied by automobile supply dealers and 1 store for grocery; offices and store rooms have been leased to Fry Guarantee Visible Pump Co., the Alemite Lubricating Co. of Arkansas, and Lee Tire Co. of Arkansas; second and third floors will be used as store-rooms for automobiles; roof garden camp to be equipped with kitchen stoves, shower baths, toilets, etc.

D. C., Washington—The Hecht Company will soon start construction of 7-story addition at Seventh and F Streets cost \$1,500,000 to erect, cost complete \$2,000,000; concrete construction, glazed white terra cotta front, with lower columns of granite; display windows will have removable back of Caen stone, floors will be of Italian travertine; 5 passenger and 2 service elevators; Jarvis Hunt, Archt., 30 N. Michigan Ave., Chicago, Ill.

Fla., Tampa—F. J. Kennard & Sons contemplate erection of wholesale plumbing house in Estuary area to be owned by Crane Co. of Chicago, Ill., and Bridgeport, Conn.

Fla., West Palm Beach—Palm Beach Mercantile Co., W. H. DaCamara, Vice-Pres. and Gen. Mgr., will have plans about May 1st for erection of salesroom and warehouse at cor. Datura and Narcissus Sts., to cost \$125,000; 4 stories, 100x140 ft., concrete foundation, composition roof, wood flooring; Harvey & Clarke, Archts., West Palm Beach, Fla. (Lately noted.)

Fla., West Palm Beach—Mrs. Geo. W. Potter will begin construction in April of a \$25,000, 1-story, 5-store business block; Spanish design; 60x100 ft.

Ga., West Point—J. J. Hagedorn & Co. is

reported to contemplate rebuilding structure recently destroyed by fire.

Ga., West Point—Wolfe and Jno. Harrington and Mrs. Shealey are reported to contemplate rebuilding structure recently destroyed by fire.

Ky., Louisville—W. C. Hoefflin has purchased 2-story brick building at 706 W. Broadway and contemplates erection of \$15,000 store building.

La., Lafayette—Mike Donlon will erect business building on Jefferson St. on site of former American Cafe.

La., New Orleans—A. G. Carbojal will soon call for bids for erection of 1-story building on N. Villere between Iberville and Marais Sts., to cost \$20,000; brick walls with steel roof trusses; Montz & Maroney, Archts., Title Guarantee Bldg., New Orleans.

Mo., Independence—L. Fred Evans contemplates erection of business building on Van Horn Road.

Mo., Joplin—C. W. Arbuthnet Mercantile Co. will occupy building to be erected on Main St. at cost of about \$10,000; 50x90 ft.

Okla., Oklahoma City—S. A. Layton has plans in progress by Layton, Smith & Forsythe, 906 Braniff Bldg., Oklahoma City, for erection of business building addition; 50x140 ft., brick and stone.

Okla., Greenville—C. C. Good is erecting 1-story brick business building on South Main St.; 25-ft. frontage.

S. C., Greenville—H. K. Townes contemplates erection of 1-story, 40-ft. front, building to contain 2 store rooms.

S. C., Spartanburg—Geer Drug Co., will erect \$12,500 addition to present store building at Magnolia and Charles Sts.; address Jno. Owen, Mgr.

Theatres

Ark., Jonesboro—Jonesboro Amusement Co. is planning improvements to theater buildings; plans include Empire to be equipped with new opera chairs over lower floor and heating equipment installed; Grand is to have new pipe organ and Liberty to be completely done over.

N. C., Durham—National Amusement Co., T. G. Letch, Mgr., is considering erection of \$400,000 theater building to seat 2200 persons.

N. C., Laurinburg—D. C. Odom and Sons are considering erection of building on Church St. to contain theater.

Okla., Muskogee—Selby Milling Co. contemplates erection of \$10,000 addition to warehouse; 50x100 ft., fireproof.

Tex., Fort Worth—Burrus Mill & Elevator Co. contemplates erection of warehouse to cost about \$10,000.

Tex., Luling—A. B. Jackson has broken ground for erection of theater building on North Fifth Ave.

Warehouses

Md., Frederick—Karl Jacobson has purchased property on South Market St., and contemplates extensive remodeling; first floor will be used as storeroom and second for apartments.

Tenn., Columbia—W. P. Ridley is pres. of tobacco demonstration club and contemplates erection of tobacco warehouse.

Tex., Harlingen—Stowe & Stowe, Archts., 1018 Second Natl. Bank Bldg., Houston, advises that work has been indefinitely postponed on \$20,000 warehouse for Desel-Boettcher Co., of Houston. (Lately noted.)

W. Va., Dunbar—J. A. Shaver and Solon Fletcher have purchased Lily Pond Park site and contemplate erection of warehouse.

BUILDING CONTRACTS AWARDED

Association and Fraternal

La., Opelousas—Benevolent Protective Order of Elks let contract at \$41,400 to Homer Ventre, Opelousas, for alterations and additions to brick Elks Club building; 2 stories, tile roof; Herman J. Duncan, Archt., 120 Murray St., Alexandria, La. (Lately noted.)

Okla., Tonkawa—Ancient Free and Accepted Masons, Joe Morris, Past Grand Master, will probably let contract within 2 weeks for erection of \$60,000 to \$75,000 temple. (Previously noted.)

Tex., Houston—Carpenters' Union will erect \$90,000 addition to building; Joe Finger, Archt.; Tom Tellepsen, Contr., both Houston.

Va., Fredericksburg—Fredericksburg Lodge No. 875, B. P. O. E., will erect \$20,000 addition to building; 60x39 ft.; banquet hall on first floor, lodge rooms above; flat roof for roof garden; E. G. Heflin, Archt.-Contr., Fredericksburg.

W. Va., Huntington—Huntington Lodge, No. 64, I. O. O. F., Hiram Gordon, Trustee, let contract to C. W. McNulty, Huntington, for erection of \$150,000 store and lodge building, 10th St. and 3rd Ave., to be called Evan J. Davies Memorial Bldg.; 4 stories and 10-foot basement, 52x150 ft., brick and steel construction, maple and concrete floors, concrete foundation, hollow and interior tile, metal doors, vault lights, ventilators, ornamental terra cotta, rolling partitions, wire glass, Barrett roof; heating and plumbing to F. W. Brockway Co.; electrical work to McKellar Electric Co.; W. B. Smith, Archt.-Constr. Supervisor, all Huntington; elevator not let. (Lately noted.)

W. Va., Logan—Aracoma Lodge No. 99, A. F. & A. M., W. L. Burdett, Worshipful Master, has broken ground for \$75,000 temple; 3 stories.

Bank and Office

Ga., Augusta—Citizens & Southern Bank, Isaac S. Ferguson, Vice-Pres., let contract to Lawrence Construction Co., Augusta, for erection of \$100,000 addition to building on Broad St.; 60x50 ft.; 28x11x8-ft. vault with 1100 safety deposit boxes to be installed by Herring-Hall-Marvin Safe Co., Hamilton, O.; Mowbray & Uffinger, Archts., 221 W. 57th St., New York City. (Lately noted.)

Mo., Joplin—Liberty Building Co., Hadley Tatum, Pres., Brown-Tatum-Shannon, Inc. Joplin; I. T. Cook & Co., Inc., St. Louis, Mo., and others, promoters, let contract to C. A. Dieter Construction Co., Joplin, for erection of \$850,000 office building, 4th and Main Sts., to be known as Liberty Bldg.; 8 stories, 75x110 ft., reinforced concrete construction; stone base, terra cotta finish to second floor, rough face brick to seventh floor, remainder of terra cotta with copper capping; light shaft in south section of building; elevator lobby with tile floor and marble walls; corridors to have tile floors and marble base, maple finish in offices; 2 passenger elevators; A. Monschein, Archt., St. Louis. (Lately noted.)

Mo., Kansas City—Geo. B. Carr, New York City, let contract to Pratt-Thompson Construction Co., 114 W. 10th St., Kansas City, for construction of 2 additional stories to 6-story Kansas City Southern Bldg., 11th and Wyandotte Sts., after plans by McKecknie & Trask, Archts., Gloyd Bldg., Kansas City. (Noted March 27.)

Mo., Kansas City—Park National Bank, H. D. Paynter, Pres., will erect \$30,000 building at 4628-30 Troost Ave.; 1 story and mezzanine, terra cotta facing; store and

banking room; Gardner Bros., Contrs., Kansas City.

Mo., St. Louis—Parker-Russell M. & M. Co., 3314 Morganford St., will erect 1- and 2-story sales office addition; brick, 68x40 ft., steam heat, tar and gravel roof, cost \$11,000; plans and construction by owner.

N. C., Brevard—Brevard Banking Co., Thos. H. Shipman, Pres., let contract at \$33,188 to J. M. & R. P. Kilpatrick, Brevard, for erection of brick, cement and limestone building; 1-story, 35x100 ft., marble floors, concrete foundation, metal ceilings, vaults, ventilators, steel sash and trim, wire glass; lighting and plumbing in general contract; heating not let; Erle G. Stilwell, Archt., Hendersonville, N. C.

N. C., Fayetteville—National Bank of Fayetteville, let contract at \$148,000 to James Fanning, Inc., Greensboro, N. C., for erection of 6-story bank and office building; electrical work to Holmes Electric Co., Fayetteville, at \$5500; vault, Mosler Safe Co., Hamilton, O., \$14,800; elevators, Otis Elevator Co., New York City (Philadelphia, Pa., office), \$11,800; banking room equipment, Wade Manufacturing Co., Charlotte, N. C., \$55,000; heating, W. W. Dick, \$6700; Chas. C. Hartmann, Archt., both Greensboro, N. C. (Previously noted.)

Okla., Oklahoma City—Reinhart & Donovan, Oklahoma City, gen. contrs. for erection of \$850,000 office building at 1st St. and Broadway for Physicians' and Dentists' Building Co., let following sub-contracts: Reinforcing steel and removable steel forms, Midwest Steel Co.; ornamental iron and bronze, J. B. Klein Foundry Co.; heating and plumbing to Cook & McDonnell Co., who sub-let heating ducts to Tom Dolan Heating Co.; electric wiring and builders' hardware, McEldowney & Son; metal windows, Bissell Builders' Supply Co.; glass and glazing, United Plate & Window Glass Co.; cut stone, O. K. Cut Stone Works; excavating machinery, Wylie Bros.; metal lath, Truscon Steel Co.; marble, tile and terrazzo, Taylor Marble and Tile Co.; hollow metal doors, J. B. Klein; liability insurance, T. E. Braniff & Co.; lumber, Greever-Roberts Lumber Co., all Oklahoma City; sashes and doors, American Sash & Door Co., Kansas City; polished granite, Woodbury Granite Co., Hardwick, Vt.; contract for elevators let direct to Otis Elevator Co., New York City (Oklahoma City Office); Layton, Smith & Forsyth, Archts., Braniff Bldg., Oklahoma City. (Noted Feb. 21.)

S. C., Easley—Easley Loan & Trust Co. let contract at \$10,318 to L. A. Rogers, Easley, for erection of 1-story and mezzanine bank building on Pendleton St.; stone and face brick front, common brick walls, 25x67 ft., tile and wood floors, concrete foundation, interior tile, 2 vaults, 2 vault lights; plumbing to John G. Acker, Pickens, S. C.; Casey & Fant, Archts., Anderson, S. C. (Lately noted.)

Tex., Austin—Texas Bank & Trust Co., M. C. Parrish, Vice-Pres., let contract to W. A. Darby to remodel several rooms in Driskill Hotel for banking quarters; C. M. Page & Bro., Archts., all Austin; construction started. (Lately noted.)

Tex., El Paso—J. E. Morgan, El Paso, has contract at \$37,500 to remodel 3-story Fenchler Bldg., El Paso and San Antonio Sts.; new front, 3 additional store rooms; offices on second and third floors; marble and plate glass work; Trost & Trost, Archts., Mills Bldg., El Paso. (Lately noted.)

Fla., South Jacksonville (Branch Jacksonville)—N. D. Nuttles & Co. is reported to

erect number of bungalows; E. W. Bostick, South Jacksonville, has contract for one in Palm Park.

Tex., Houston—F. J. Illig, Pine and 6th Sts., let contract to J. A. Bonin, 312 Scanlon Bldg., for erection of brick veneer residence for which concrete foundation is in; 2 stories, oak floors, concrete foundation, interior tile, mail chutes, ventilators, ornamental terra cotta, roofing not decided; hot air heating to Brown & Gross; plumbing to Warren Co., all Houston; electrical work not let. (Lately noted.)

Tex., San Antonio—Alamo National Bank let contract at \$22,438 to Chas. H. Brient, San Antonio, for remodeling and repairing building; Herbert S. Green, Archt., Alamo National Bank Bldg. (Lately noted.)

W. Va., Caretta—Consolidation Coal Co., let contract to Shinnston Planing Mill Co., Shinnston, W. Va., for erection of 45 miners' dwellings.

Churches

Ala., Bessemer—St. Aloysius Catholic Church let contract to W. L. Coston, Bessemer, for erection of \$75,000 building, 5th Ave. and 17th St.; brick and stone, 2 stories, 113 x 50 ft., rift pine floors, concrete foundation, Ludowici Spanish tile roof; heating, electrical work and plumbing to Jim Sullivan, Bessemer; Fredk. Ausfeld, Archt., Montgomery, Ala. (Lately noted.)

Ala., Fairview (Station Birmingham)—Fairview Methodist Church, H. H. Thomas, Chmn., Bldg. Comm., has started construction of brick building; cost \$40,000, including furnishings; 2 stories, 60x50 ft. and 40x70 ft., cement, hardwood and rift pine floors, concrete foundation, tile or asbestos roof, plaster board, common and face brick, interior tile, rolling partitions; steam heat and electrical work no tlet; J. S. Arnold, Archt.-Constr. Supervisor, Fairview.

Ark., Little Rock—Bullock Memorial C. M. E. Church, Rev. I. C. Nicholson, Pastor, has started construction of \$18,000 auditorium.

Ga., Columbus—Eastern Heights Baptist Church will erect \$35,000 brick building, 7th St. and 14th Ave.; Sargeant Hamilton, Archt.; C. W. Buck, Contr., both Columbus.

La., New Orleans—St. Pauls Evangelical Lutheran Church will erect \$14,276 building, Burgundy and Port Sts.; Wallace & Evers, Contrs., New Orleans.

La., New Orleans—Church of Our Lady of Lourdes let contract to J. A. Petty, New Orleans, for erection of building on Napoleon Ave., near Howard St.; cost about \$75,000, 90x130 ft., steel frame, hollow tile walls, tile roof, artificial stone trim; accommodate 750; Diboll & Owens, Ltd., Archts., Interstate Bldg., New Orleans. (Lately noted.)

Md., Baltimore—St. Thomas P. E. Church, Carswell and Taylor Sts., has plans ready for bids on heating, plumbing and electrical work for \$100,000 stone parish house to be erected on the Alameda near 31st St. by Tase-Norris Co., Inc., 903 Cathedral St.; building to be 2 stories, 173x64 ft., floors of wood, tile, etc.; stone foundation, slate roof, hollow and interior tile, steel sash and trim; Robt. L. Harris, Archt., 13 W. Saratoga St., both Baltimore. (Lately noted.)

Md., Cumberland—Beth Jacob Congregation noted March 20 under Contracts Awarded—Churches, Md., Baltimore, should have been under Md., Cumberland.

Okla., Tulsa—First Presbyterian Church, Edw. Watters, 526 Robinson Bldg., Sec. Bldg. Comm., let contract at \$310,000 to J. W.

Van Horn, Tulsa, for erection of fireproof building; reinforced concrete and hardwood floors, concrete foundation, hollow and interior tile, metal ceilings and doors, vaults, vault lights, ventilators, rolling partitions, steel sash and trim, slate and composition roof; electrical work and plumbing in general contract; hot air heating not let; tower to connect new and present structures; Hawk & Parr, Archts., Oklahoma City, Okla.

Va., Roanoke—Church of the Brethren let contract to T. J. Davis, 327 Berkley Ave., for erection of \$55,000 building, who desires bids on 1-pipe steam heating system, knob and tube system of electrical work, and plumbing; contract for millwork let to Central Manufacturing Co.; building to be concrete, brick and stone; auditorium 2 stories, 43x85 ft. and Sunday school 4 stories, 45x45 ft.; rift pine floors, concrete foundation, Genesco asphalt shingle roof; H. M. Miller, Archt., all Roanoke; excavating. (Lately noted.)

City and County

Ala., Center—Jail—Cherokee County let contract to Southern Steel Co., San Antonio, Tex., for erection of \$17,000 jail; brick, reinforced concrete slab floors, 2 stories; Fred. Ausfeld, Archt., Montgomery, Ala. (Lately noted.)

Fla., Delray—Municipal Building—City let contract at \$10,560 to L. H. Walker, Delray, for erection of hollow tile and stucco municipal building; 2 stories, 50x60 ft., hardwood and concrete floors, concrete foundation, built-up roof; plumbing at \$400 to J. Myers & Sons; electrical work (roughing in only) to Delray Electric Shop, \$200; Martin L. Hampton, Archt., Miami, Fla.; foundation completed. (Lately noted.)

N. C., Winston-Salem—Market—City let contract to Southeastern Construction Co., Charlotte, N. C., for erection of 2-story market house; 114x243 ft. reinforced concrete construction, concrete floors, reinforced concrete roof, hollow and interior tile, ventilators, ornamental terra cotta, 2 elevators; Northup & O'Brien, Archts., Winston-Salem. (Lately noted.)

Okla., Tulsa—Jail—J. W. Wilson, 202 Kennedy Bldg., Tulsa, general contractor, at \$86,898 for erection of court and jail building at 4th and Elgin Sts., desires sub-bids on marble and dumb waiter; following sub-contracts let: Plumbing and vapor system of heating to Knowles & Green, 116 W. 3rd St.; electrical work, Electric Supply Co., all Tulsa; cell work at \$10,500 to Roanoke Iron & Bridge Co., Roanoke, Va.; building to be 2 stories and basement, F-shaped, 88x42 ft. and 35x92 ft.; cement, tile and terrazzo floors, brick and asphalt roof, hollow and interior tile, metal doors, vaults, ventilators, steel sash and trim, wire glass; F. A. Dugan, Archt., 202 Castle Bldg., Tulsa; building completed to first floor level. (Noted March 13.)

Tex., Childress—Jail—City, J. H. Callo-way, Judge, let contract to Southern Steel Co., 4500 block S. Presa St., San Antonio, Tex., for erection of \$30,000 jail; 2 stories, brick and concrete, stone trim. (Previously noted.)

Tex., Corsicana—Municipal Building—City, J. A. Harper, City Mgr., let contract at \$44,696 to John R. Carson, Corsicana, for erection of 1-story and basement municipal building; M. T. Horn and H. O. Blanding, Archts., Corsicana. (Lately noted.)

Tex., Corsicana—Grandstand—City has started construction of grandstand in Gumbo Buster Park; J. O. Blanding, Archt., Corsicana.

Tex., Houston—Library—City, W. A. Moore, Sec., advises contract for erection of first unit of \$750,000 library will no doubt be let to South Western Construction Co., Houston; cost about \$250,000; Wm. Ward Watkins and L. A. Glover, Archts., Houston; Cram & Ferguson, Const. Archts., 48 Boylston St., Boston Mass., and Scanlon Bldg., Houston. (Lately noted.)

W. Va., Bluefield—City Hall—City, Clarence E. Ridley, City Mgr., will probably let contract at \$15,333 to W. A. Bodell, Bluefield, for heating and electrical work for new \$200,000 city hall for which H. H. Lucas, Bluefield, has general contract; Wilbur T. Mills, Columbus, O., and Garry & Sheffey, Bluefield, Asso. Archts. (Noted March 13.)

Dwellings

Fla., Little River—J. W. Payne, Macon, Ga., and Jas. R. Kelly, Miami Beach, Fla., purchased 5 lots in Roselawn subdivision and will erect 5 dwellings; Beach Haven Realty Co., Contr., care Mr. Kelly, Pres.

Fla., Miami—G. A. Mutch, Bldr., will erect two \$9000 dwellings on Vista Court and one on Crystal Court, all Crystal Bluff; 2 stories, 8 rooms.

La., Baton Rouge—C. L. Brasfield will erect residence in Standard Heights; Ray Hudson, Contr., Baton Rouge.

La., New Orleans—Mrs. Lena Tordo D'Amico will erect \$15,688 building, Ursuline and Bellechaise Sts.; John W. Fleetwood, Contr., New Orleans.

La., New Orleans—Union Homestead Assn. will erect \$9000 dwelling, Walnut and General Hood Sts., and \$12,000 dwelling, Audubon Blvd. near Claiborne St.; Ed. L. Markel, Archt.-Contr., New Orleans.

La., New Orleans—M. Barnette will erect \$13,000 single bungalow, S. Galvez and Cadiz St.; E. L. Markel, Archt.-Contr., New Orleans.

La., New Orleans—Conservative Homestead Ass'n. will erect \$14,000 building, near S. Rocheblave and Tonti Sts.; Jas. E. Vergnes, Contr., New Orleans.

Md., Baltimore—Walter E. Brady, The Cambridge, let contract to W. E. Harn Co., Inc., 2316 Oak St., for erection of 2½-story frame residence, east side Bedford Place north of Oakley Lane; 34x43 ft., slate roof, hot water heat; cost \$15,000; Mottu & White, Archts., 527 N. Charles St., all Baltimore. (Lately noted.)

Md., Baltimore—O. Edw. Janney, M. D., 825 Newington Ave., will erect \$12,000 brick dwelling, N. E. Cor. Park and Newington Aves.; J. Raymond Gerwig, Contr., Forest and Strathmore Aves., Baltimore.

Md., Baltimore—Milburn Realty Co., Eastern Ave. and 8th St., will erect 20 two-story brick dwellings, 5201-21 and 5301-17 Eastern Ave.; each 16x28 ft.; furnace heat; total cost \$50,000; Stanislaus Russell, Archt., 11 E. Lexington St., Baltimore; owner builds. (Lately noted.)

Md., Baltimore—Frank E. and J. Harry Schad, 44 Gunther Bldg., will erect 8 dwellings on S. E. and S. W. sides Furley and Marx Aves.; 1½ stories, frame, shingle roofs, steam heat; E. J. Mays, Archt.; Home Builders Organization, Inc., Contr., both care owners. (Lately noted to erect 100 dwellings in connection with development of 21-acre tract.)

Md., Baltimore—Fred M. Kipp, 1605 Eastern Ave., let contract to C. W. Littleton & Son, 4313 Liberty Heights Ave., for erection of \$12,000 residence and garage, N. W. cor. 33rd St. and Tivoli Ave.; 2½ stories, 42x42 ft., brick, stone foundation, slate roof;

Fredk. Thomas, Archt., 726 E. 33rd St., all Baltimore; heating, lighting and plumbing not let. (Lately noted.)

Mo., Boonville—W. S. Beckett let contract for erection of 2-story 8-room residence on Spruce St.

Mo., Clayton (Ind. Station St. Louis)—J. W. Schaefer, 820 N. Broadway, will erect 4 brick dwellings, block 1, Lawlers sub-division; 28 x 40 ft. each; total cost \$14,000; Mr. Lawler, Archt.; W. Waurznjak, Contr., both Clayton.

Mo., St. Louis—W. Brinkop, 619 Chestnut St., will erect 2 brick dwellings, 5510-12 Alaska St. and 1 at 4610 Virginia St.; 1 story, 25x42 ft., composition shingle roofs, furnace heat; total cost \$13,500; K. W. Muses, Archt.-Contr., 4935 Wise St., St. Louis.

Mo., St. Louis—Hamley Realty Co., 3611 N. Grand Blvd., will erect 10 brick dwellings, 4939-41-45-47-51-53-63-67-75-77 Theodore St.; 1 story, 22x46 ft., composition tar and gravel roofs, furnace heat; total cost \$35,000; Otto J. Boehmer, Archt., 3500 Palm St.; R. Hintz & Mores, Contrs., 3611 N. Grand Blvd., all St. Louis.

Mo., St. Louis—Family Investment Co., 127 Blow St., will erect 5 one-story dwellings, 113-21 Bates St.; total cost \$17,000, each 24x34 ft., brick, asphalt shingle roofs; plans and construction by owner.

Mo., St. Louis—M. Koberman, 5646 Gravois St., will erect 5 brick dwellings, 4461-63-67-71-73 Ellenwood St.; 2 stories, 24x26 ft., composition roofs, furnace heat; total cost \$175,000; S. O. Schumacher, Archt., 3682 Keokuk St.; owner builds.

Mo., Springfield—David Schwab, 504 E. Elm St., will erect \$21,000 residence, Pickwick Ave. and Catalpa St.; English type, brick with terra cotta trim; S. E. Dobbs, Contr., Springfield.

N. C., Charlotte—Hunkin-Conkey Construction Co., will erect \$15,000 office building between Johnston and Piedmont office buildings on S. Tryon St.; 1 story, 13 x 50 ft.

Okl., Ponca City—G. B. Barnes let contract to J. F. Rankin, Ponca City, for erection of \$11,000 residence, Elmwood and Overbrook Sts.

S. C., Chester—Chester Plumbing & Heating Co., Chester, has contract at \$12,000 to install plumbing and heating in 50 dwellings at Eureka Cotton Mills, for which Minter Homes Co., Greenville, S. C., has contract. (Lately noted.)

Tenn., Memphis—Mrs. P. D. Russell let contract for heating to Memphis Heating Co., and electrical work and plumbing to Lew Tisdale, for \$35,000 residence on Highland Ave. and Chickasaw Place; English type, 2 stories and basement, half timber construction, Mozake, red quarry, hardwood and concrete floors, concrete foundation, tile roof, interior tile, ventilators, steel sash and trim; J. Frazier Smith & H. T. Burnham, Archts., Goodwin Inst. Bldg.; D. L. Crouch & Son, Contrs., 63 S. 3rd St., all Memphis; foundation started. (Lately noted.)

Tex., Brownsville—Mrs. C. A. Siggins will erect \$15,000 brick and hollow tile residence; Leo. M. J. Dielmann, Archt., San Antonio, Tex.; Ed Jochen, Contr., Brownsville.

Tex., Greenville—W. A. Beasley let contract to J. L. Brotherton for erection of 7-room, brick veneer residence on S. Stonewall St.; Lindsey & Kilmer, Archts., Greenville.

Tex., Lubbock—Fred Sims, care Sanitary Meat Market, will erect 6-room residence, block 82, Overton addition on Main St.; H. E. Verson and J. M. Hubbard, Contrs., Lubbock.

Tex., Waco—Louis Collie let contract at \$23,000 to Sparks & Williamson, Waco, for

erection of hollow tile and brick residence 29th and Austin Aves.; 2 stories and attic, oak and concrete floors, concrete foundation, hollow and interior tile, slate roof; Baugh & Lovell, Archts., First State Bank Bldg., Waco.

Va., Danville—Henry C. Leigh let contract to King Anderson, Danville, for erection of \$12,000 residence on Lady Astor St.; 2 stories, 8 rooms, frame; Heard & Chesterman, Archts., Danville. (Lately noted.)

Va., Richlands—A. B. Buskill is erecting brick building in N. E. section of Richlands; 2 stories, 13 rooms; will probably be used as residence and rooming house.

Va., Richmond—Muhleman & Kayhoe will erect 55 dwellings in Stonewall Courts; cost \$8500 each, frame, 2 stories, 26x30 ft., oak, pine and concrete floors, brick foundation, slate roofs, interior tile; heating to T. E. Beckner, Richmond; electrical work to N. H. Jenks, both Richmond; plans and construction by owner; work started.

Va., Richmond—American Construction Corp., 111 Mutual Bldg., will erect 14 dwellings in 3100 and 3000 blocks W. Grace St. and 7 Colonial County mansion type in Duntreath; former 6 rooms, latter 8 rooms; all 2 baths; total cost \$100,000; brick and frame construction, hardwood floors; heating and plumbing to J. M. Royce; lighting to Miller & Nebbett, all Richmond; plans and construction by owner; work started.

W. Va., Parkersburg—J. S. Broida, Bolda Dept. Store, will erect \$20,000 brick residence, Market and 17th St.; contract let.

W. Va., Parkersburg—Mrs. Margaret W. Paden will erect 10-room frame residence at Country Club; T. B. Watterson, Contr., Parkersburg.

W. Va., Wheeling—Geo. V. McFadden will erect \$25,000 brick residence on Hamilton Ave., Woodsdale; M. F. Giesey, Archt.; Kaltenbach Bros., Contrs., all Wheeling.

Government and State

Tex., Paris—Post Office—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., let following sub-contracts in connection with erection of \$143,000 brick and stone post office building on Lamar Ave. for which Chas. Weitz' Sons, Des Moines, Iowa, has gen. contr.; ornamental iron, St. Louis Architectural Iron Co., St. Louis, Mo.; cut stone, Herget Cut Stone Co.; plumbing and heating, Farwell Co., both Dallas, Tex.; granite, J. D. Sargent Co., Mt. Airy, N. C. (Lately noted.)

Hospitals, Sanitariums, Etc.

D. C., Washington—District Commrs., Room 509, District Bldg., let contract at \$33,885, to C. A. Hofferberth Construction Co., Woodward Bldg., Washington, for erection of non-fireproof nurses dormitory; 2 stories and basement, 75x35 ft., wood floors, concrete foundation, copper tile roof; cash iron sectional, smokeless, up-draft, steam boiler, direct radiation; conduit system electric wiring, fire alarm bells, etc.; laundry tubs, showers, etc.; plans by A. L. Harris, Municipal Archt. (Lately noted.)

Mo., St. Louis—Christian Hospital Assn., Dr. C. A. Mellies, Chmn. Bldg. Comm., Grand and Palm Sts., let grading contract to Gruin-Colnon Contracting Co., St. Louis, preparatory to erection of \$350,000 hospital, Carter, Newstead and Taylor Aves.; building to be 40x120 ft. and 40x80 ft., 4 stories, reinforced concrete construction, concrete, terrazzo tile and cork floors, built-up roof, steam heat; central lighting plant, 2 high-speed elevators, hollow fireproof and interior tile, metal doors, vaults, mail chutes, steel

sash and trim, wire glass; Hoener, Baum & Froese, Archts., N. W. cor. Grand Blvd. and LaClede Ave., expect to complete plans in 90 days, when they will be placed on the market. (Previously noted.)

S. C., Spartanburg—Lockwood, Greene & Co., Archts., 24 Federal St., Boston, Mass., and Spartanburg, are supervising erection of Black Hospital, noted March 13, and will open bids April 3 for construction of foundation; contract will probably be let jointly with contract for foundation of First Presbyterian Church. (See Buildings Proposed—Churches).

Tex., San Antonio—Baylor Hospital Co. let following sub-contracts in connection with erection of \$42,000 addition to hospital, 9th and Oakland Sts.; hot water heating and plumbing, R. G. Thomas, 127 College St.; electrical work, Martin Wright, 308 E. Houston St.; building to be 38x98 ft., hollow tile walls, Asbestolith and concrete floors, gravel roof; concrete pier and beam foundation in; Harvey L. Page, Archt., 204 Crescent St.; M. L. Diver, Engr.; C. M. Webb, Gen. Contr., 2601 Saunders Ave., all San Antonio. (Lately noted.)

Hotels and Apartments

Ark., Van Buren—H. R. Bennett, Mgr. of Southern Hotel, awarded contract for extensive remodeling; plans include installation of plumbing, etc.

Fla., Miami Beach—J. C. Andrews, Miami Beach and West Point, Ind., awarded contract to Geo. A. Fuller Co., 940H Broadway, New York City, to erect \$350,000 hotel at North Meridian Ave. and 48th St., to be known as King Cole; will contain 70 rooms and roof garden, fireproof, Spanish architecture, garage and quarters for servants, 3 stories and a tower, reinforced concrete and hollow tile construction, wood piles and concrete foundation, composition and tile roof, cement and concrete flooring, hollow tile construction will not begin until autumn; Klehnel & Elliott, Archts., Miami Beach, Miami, Fla., and Pittsburgh, Pa. (Lately noted.)

Fla., Miami—T. R. Knight and Wm. G. Just awarded contract to Robt. B. McCalley, Miami, at \$666,000, to erect 11-story hotel building; 80x90 ft., reinforced concrete construction, contain 80 rooms and roof garden, tile, cement and concrete flooring, concrete and Johns-Manville built-up roof, concrete and steel foundation, hollow tile, interior tile, metal doors, vaults, ventilators, vault lights, wire glass, steel sash and trim; 2 passenger and 1 freight elevator, high speed, automatic control, safety appliances, contract not let; C. H. Louthier, wiring, power, telephones, vault alarm and call service; F. P. Moss, plumbing, heating and refrigerating; Geo. Fink, Archt., all Miami. (Lately noted.)

Fla., Hollywood—J. S. Matson, Greenwood, Penna., has started construction of apartment building at Polk St. and Fifth Ave.; contain 8 apartments and 8 single rooms, 2 stories, Spanish design, 60 x 90 ft., finished in stucco; H. H. Voges, Contr., Miami, Fla.

La., New Orleans—A. L. Smith will soon let sub-contract in connection with his contract for erection of 2-story frame stucco apartment house at Joseph, St. Charles and Hurst Sts., for Jno. M. Abrams; cost \$30,000; 42x85 ft.; Hortman & Co., millwork; Leander Marx, plumbing; both New Orleans.

Md., Baltimore—Wm. H. Parker, Mgr. and Director of Emerson Hotel, will soon start erection of \$350,000 addition at 188-20 East Baltimore St.; 11 stories, 80x104 ft., will contain 90 sleeping rooms, ballroom, and banquet hall; elevators; will enlarge

entrance from Baltimore St., providing access to main dining room; construction under supervision of owner and Wm. G. Beecher, Archt., Calvert Bldg., with Walter C. Hare, 4213 Belview Ave., as construction foreman. (Lately noted.)

Miss., Vicksburg—Aeolian Co., H. H. Havis, Pres., has awarded following sub-contracts in connection with Aeolian Apartment building on Cherry and Clay Sts.: Laclede Steel Co., St. Louis, Mo., 120 tons of reinforced steel; U. S. Gypsum Co., Chicago, Ill., 70,000 sq. ft. gypsum block; Birmingham Clay Products Co., Birmingham, Ala., 18,000 sq. ft. clay back tile; Enochs Lumber & Mfg. Co., Jackson, Miss., mill work for doors, windows and interior strip; Mississippi Lumber Co., Chicago, Ill., and Vicksburg, Miss., 250,000 ft. lumber for concrete forms; B. W. Havis Archt., Atlanta, Ga.; construction by H. H. Havis. (Lately noted.)

Mo., St. Louis—A. R. Darr, 4300 Dewey St., will erect two 2-story brick tenement buildings at 5528-32 S. Grand St., to cost \$17,000; 33x50 ft., composition tar and gravel roof, hot air heat; A. R. Darr Construction Co., Archts. and Contrs., 4300 Dewey St.

Mo., St. Louis—H. L. Schaeffer, 415 International Life Bldg., will erect 2-story brick tenement building at 1389 Semple St., to cost \$10,000; Oliver J. Popp, Archt., Odd Fellows Bldg., St. Louis; 34x58 ft., rubberoid roof, furnace heat. Owner builds.

Mo., St. Louis—A. Sanarin, 815 Goodfellow St., will erect 3-story tenement building at 5734 Kingsbury St. to cost \$18,000; 56x31 ft., tar and gravel roof, steam heat; R. Mederacke, Contr., 4430 Arsenal St.

Mo., St. Louis—Max Goldman, 808 Chestnut St., will erect two 3-story, 12-family brick apartments to cost \$40,000 each; 28x109 ft. each, tar and gravel (flat) roof, tile (steep) roof, steam heat; Jacob Rubin, Contr., 808 Chestnut St.; Oliver J. Popp, Archt., Odd Fellows Bldg.; both St. Louis.

Mo., University City (Sta. St. Louis)—Geo. and Emma Daish, 7280 Forsythe St. will erect 2-story, 4-family, brick, apartment building at 7116 Forsythe St., to cost \$20,000; 63x85 ft., composition (flat) roof, tile (steep) roof, hot water heat; Geo. Nalla, Contr., 4345 Papin St.; Ed. Geisler, Archt., DeMenil Bldg.; both St. Louis.

N. C., Elkin—Elkin Hotel Co., Inc., A. G. Glick, Pres., awarded contract to C. B. Franklin and J. W. Mathis, Elkin, to erect 5-story hotel building at Bridge and Market Sts., to cost \$100,000; brick and steel, wood partitions, steel laths, 94x34 ft., tile, concrete and wood flooring, Barrett roofing, hollow tile, ventilators, wire glass; construction under supervision of Louis H. Asbury, Archt., Charlotte; bids desired on tile flooring; see Machinery Wanted—Holst. (Additional description in March 27.)

N. C., Greensboro—J. M. Crutchfield awarded contract to T. C. Cozart, Greensboro, at \$24,417, to erect 3-story building at W. Washington and Eugene Sts.; stores on ground floor and apartments above; brick, terra cotta and wood construction, tin roof, wood floors, concrete and brick foundation, hollow tile, metal ceilings, 42x80 ft.; W. W. Deck, Webster vapor heat; Crutchfield Plumbing Co., plumbing and drainage; Albert C. Wirth, Archt., all Greensboro, N. C. (Lately noted.)

Okla., Enid—Dr. R. A. Field awarded contract to D. C. Bass & Son, Enid, at \$17,995, to erect apartment house; Oklahoma Plumbing Co., Enid, plumbing and heating at \$5050; R. W. Shaw, Archt.

S. C., Greenville—Clinton C. Jones awarded contract to Potter & Shackelford, Green-

ville, to erect 3-story apartment house on Manly St. between Pettigru and East Washington Sts., cost \$85,000; 40x135 ft., contain 15 apartments of 4, 5 and 6 rooms each; construction of face brick, slate roof, hardwood floors, mahogany doors and white wood work, ornamental tiling, wrought iron and tile porches; Silas D. Trowbridge, Archt., Atlanta, Ga. (Lately noted.)

Tex., Beaumont—E. Conway Broun Co. will erect 2-story, \$12,000 apartment house in Kirby addition; frame construction, 30x50 ft., e. g. pine flooring, brick and cement foundation, cement tile roofing, cost \$12,000; Louis Chazen, Archt., Beaumont. Construction by owners.

Va., Richmond—Carneal & Johnson, Archt., have awarded contract to Virginia Construction Co., Richmond, to erect 11 two-story homes for colored people; 4 apartments in each building; cost \$75,000.

Miscellaneous

Ark., Monticello—Arkansas Baptist Orphans' Home, A. L. Owen, Pres., let contract to Carter & Carter, Little Rock, to erect 2 dormitories; cost \$100,000; fireproof, reinforced concrete and brick, 400x80 ft., 3 stories, tile roof, cement and concrete floors, rolling partitions; Wiltenburg, Deloney & Watts, Archts., Little Rock. (Lately noted.)

D. C., Washington—Embassy—Mrs. Jno. B. Henderson, 2200 Sixteenth St., N. W., will erect embassy building at Fifteenth and Euclid Sts., Meridian Hill northwest; Maj. Geo. Oakley Totten, Jr., Archt., 808 Seventeenth St.; Wm. P. Lipscomb Co., Inc., Contrs., 1406 G Street, N. W.; both Washington, D. C.

La., New Orleans—Stables—Cloverland Dairy Products Co. awarded contract to Gervais F. Favrot, New Orleans, at \$98,000, to erect stable building at Dublin and Olive Sts.; 1-story with a portion 2-stories, 204x326 ft., concrete and steel construction; Favrot & Livaudais, Archts., Hibernia Bank Bldg., New Orleans.

Mo., Kansas City—Market—Stop & Shop Co., H. B. Schoolfield, awarded contract to Fogel Construction Co., Rellance Bldg., Kansas City, to erect public market on Main and Spring Sts., south of 31st St.; "L" shape, cost \$500,000, 1-story, exterior of white terra cotta, 40-ton refrigerating plant in basement, space for 110 food merchants occupying stands of tile, marble and glass, 62x240x140 x140 ft.; W. S. Ferguson & Co., Archts., Cleveland, Ohio.

N. C., Monroe—J. R. Shute is taking sub-bids on building to be used as undertaking establishment by T. P. Dillon & Sons; brick walls, 2 stories; Wilson, Berryman & Kennedy, Archts., Columbia, S. C. and Wilson and Gastonia, N. C.

Tex., Flatonia—Flatonia Fair Assn. has awarded contract for erection of additional buildings.

Schools

Fla., Thonotosassa—Hillsborough County Board of Public Instruction, Tampa, awarded contract to Standard Engineering Co., at \$12,912.66, to erect Junior High School building; Franklin O. Adams, Jr., Archt., Louisville, Ky. (Lately noted.)

Ga., Marietta—School Board awarded contract to Paul Wesley, Chandler Annex, Atlanta, at \$72,000, to erect 2-story high school building; hollow tile, brick and terra cotta construction; tar and gravel roof, hardwood and concrete floors, ventilators, wire glass, steel sash and trim, ornamental terra cotta; heating, plumbing and electric lighting in

general contract; Daniell & Beutell, Archts., Healey Bldg., Atlanta. (Lately noted.)

La., Algiers—(Sta. A New Orleans) Holy Name of Mary Sisterhood awarded contract to Roupich Construction Co., Inc., 405 Louisiana Bldg., New Orleans, at \$96,144, to erect 3-story school building; 78x148 ft., cost \$125,000; J. Bodenger, Inc., 157 Delaronde St., Algiers, heating and plumbing; Barnes Electric Co., 500 Gravier St., electric wiring, furnishing and erecting fixtures at \$2475; Roberts & Co., 1419 Gravier St., millwork at \$5875; Alex. W. Norman, Archt., Louisiana Bldg., all New Orleans. (Lately noted.)

La., Lafayette—Southwestern Louisiana University, E. L. Stephens, Pres., opened bids for erection of 2-story science building; Knapp & East, Lake Charles, La., were low bidder at \$59,000; Favrot & Livaudais, Archts., Hibernia Bank Bldg., New Orleans. (Lately noted.)

La., Eunice—St. Landry County Board of Education, Opelousas, awarded contract to Caldwell Bros., New Orleans, at \$125,000, to erect 2-story school building; brick, 154x189 ft., 26 classrooms and auditorium, tile roof, cast stone; Herman J. Duncan, Archt., 120 Murray St., Alexandria, La. (Lately noted.)

La., Natchitoches—State Normal College awarded contract to W. J. Quick, Lake Charles, La., at \$23,400 to erect infirmary building; concrete and brick construction, 1 story, 38x72 ft., concrete foundation, wood and terrazzo flooring; Croft Rushworth, Lake Charles, heating; Favrot & Livaudais, Archts., New Orleans, La. (Lately noted.)

Miss., Aberdeen—Trustees of Aberdeen High School awarded contract to Mississippi School Supply Co., Jackson, to furnish \$125,000 school building; cost \$10,000; will be ready for occupancy within 30 days.

N. C., Advance—County Commrs., Mocksville, awarded contract to Contractor Kane, Roxboro, to erect \$70,000 school building in East Shady Grove Township; contain 15 rooms and auditorium. (Lately noted.)

N. C., Greensboro—North Carolina College for Women, Dr. J. I. Foust, Pres., awarded contract to Angle & Moesser, Greensboro, at \$120,000, to erect building to house central heating plant; red brick and tile, 80x120 ft.; Clyde R. Pace, Consult. Engr., 70 East 45th St.; plans drawn by Alfred Fellheimer and Stewart Wagner, Archts., 7 East 42nd St.; all New York City. (Lately noted.)

Okla., Norman—Sigma Nu Fraternity awarded contract to Jno. Semke, 807 N. Hudson, Oklahoma City, to erect \$50,000 fraternity house; 63x90 ft., brick and stone construction; Atkinson & Olson, Archts., 202 Mid-continent Bldg., Tulsa.

N. C., Oxford—Board of Directors, Oxford Orphanage, awarded contract to Byrum Construction Co., Oxford, to erect school building on campus of institution; brick construction, cost \$75,000; Chas. C. Hook, Archt., Charlotte, N. C. (Lately noted.)

N. C., Sanford—School Board awarded contract to Chapman Hunt Co., Oxford, at \$128,200, to erect school building; 219x120 ft., 3 stories, built-up roof, concrete floors, ventilators, metal doors, hollow tile; Wilson, Berryman & Kennedy, Archts., Columbia, S. C., and Wilson and Gastonia, N. C. (Lately noted.)

Okla., Oklahoma City—School Board awarded contract to A. F. Stewart Construction Co., Oklahoma City, to erect \$350,000 Harding junior high school building; reinforced concrete and brick construction; concrete foundation, wood and concrete flooring; Andy Binns, plumbing and heating; Guy

Wetherbee, electric wiring; Layton, Smith & Forsythe, Archts., Oklahoma City. (Lately noted.)

S. C., Aiken—School Board awarded contract to Jordan Building Co., Greenville, S. C., at \$22,500, to erect 2-story brick school for negroes; Weatherford & Co., plumbing; Hafers Co., electric lighting; both Aiken; 52x108 ft., concrete basement, 10 classrooms and auditorium; Jas. J. Baldwin, Archt., Anderson, S. C. (Lately noted.)

S. C., Columbia—University of South Carolina awarded contract to Rutherford-Innes Co. for construction of fire escapes at all dormitories; Lafaye & Lafaye, Archts., Columbia

S. C., Sumter—Board of Trustees, Sumter City Schools, J. A. Mood, Chmn., awarded contract to Derby & Burns, Fayetteville, N. C., at \$256,714.66, to erect boys' high school, girls' high school and manual training building with heating, lighting and plumbing; I. F. Broom & Bro., Sumter and Florence, has contract to erect negro school, separate contracts for heating, lighting and plumbing, total amount \$33,953.97; Bryce Heating & Plumbing Co., Florence, plumbing for boys' high school and girls' high school and heating for manual training building; J. L. Powers, Bennettsville, heating for girls' and boys' high school buildings; Lynam Electric Co., Sumter, lighting for boys' high school, manual training building and negro school; Carolina Electric Co., Rock Hill, lighting for girls' high school; A. J. Ard, Sumter, plumbing in negro school; W. B. Guimarin, Columbia, heating for negro school; Wilson, Berryman & Kennedy, Archts., Columbia, S. C., and Wilson and Gastonia, N. C. (Lately noted.)

Tenn., Chattanooga—McCallie School will soon start construction of \$10,000 gymnasium; Gordon Smith, Archt.; H. L. Davison, Contr.; both Chattanooga.

Tenn., Jefferson City—Carson-Newman College has plans in progress by Barber & McMurray, Knoxville, and expects construction to start in 3 weeks on 3-story, \$25,000 boys' dormitory; brick and frame, 40x112 ft., slate roof. Construction by owners.

Tenn., Pikeville—Bledsoe County Board of Education, Samuel Hixson, Supt., awarded contract to Wm. G. Lusk, Pikeville, at \$17,900, to erect consolidated school building near College Station.

Tex., Big Springs—School Board awarded contract to San Antonio Construction Co., San Antonio, at \$28,316, to erect 2-story addition to high school building; 86x71 ft.; Page Brothers, Archts., Austin. (Lately noted.)

Tex., Dallas—Board of Education awarded contract to Hickey & Montgomery, Dallas, at \$47,600, to erect addition to San Jacinto School, San Jacinto and Washington Sts.; 2 stories, fireproof, wood flooring, composition roof, reinforced concrete foundation, cost \$59,900; C. Wallace Plumbing Co., vacuum heating system and plumbing at \$12,228; Herbert M. Greene Co., Archts., all Dallas. (Lately noted.)

Tex., Houston—Board of Education of Houston Independent School District, H. L. Mills, Business Mgr., 1600 Washington Ave., awarded contract to Dixie Construction Co., Beaumont, at \$95,000, to erect 2-story, fireproof school building; gravel roof, cement, concrete and pine flooring, hollow tile, metal doors, ornamental terra cotta, steel sash; Warren Co., vacuum steam heat at \$6749; Barden Electric Co., electric lighting at \$2997.20; Barber Plumbing Co., plumbing at \$5104.50; Endress & Cato, Archts., 831-2 Bankers Mortgage Bldg.; all Houston. (Lately noted.)

Tex., Kerrville—Schreiner Institute awarded contract to W. C. Thrallkill, San

Antonio at \$39,711, to erect 2-story dormitory and third story to Administration building; W. B. Brown, Kerrville, plumbing and heating at \$10,515; Kirkwood & Wharton, electric work at \$1772; Southern Steel Co., fire escapes; Adams & Adams, Archts., Kerr Bldg.; all San Antonio, Tex. (Lately noted.)

Tex., Plano—School Board awarded contract to Morgan & Gibbs, Sherman, Texas, to erect school building; recently sold \$65,000 bonds. (Lately noted.)

Va., Richmond—Virginia Mechanics Institute awarded contract to J. T. Nuckols, Richmond, at \$87,241, to erect shop building at Tenth and Marshall Sts., to house trade school of Institute and form first unit of group to be erected later; 4 stories, 60x128 ft., reinforced concrete construction, concrete and terrazzo flooring, concrete foundation, slag roof, hollow and interior tile, metal doors, ornamental terra cotta, wire glass; Pemberton & Benson, heating; W. H. Jenks, electric wiring; J. H. Rose & Co., plumbing; Marcelus E. Wright, Archt., all Richmond. (Lately noted.)

Tex., San Antonio—Carmelite Sisters awarded contract to J. C. Dielmann Construction Co., San Antonio, at \$30,000, to erect 2-story and basement brick building; 45x95 ft., composition roof, wood flooring, concrete foundation; Jud & Ormond, baths, toilets, sinks, etc.; Steves Sash & Door Co., millwork; H. Spaltenstein, sheet metal work; Leo. M. J. Dielmann, Archt.; all San Antonio. (Lately noted.)

Tex., Sterling City—School Board, J. C. Helm, Supt., awarded contract to Goodbar & Page, Dallas, to erect school buildings; fireproof, center 2 stories, wings 1 story, concrete, brick, stone and tile; concrete foundation, 66x105 ft., hollow tile, metal ceilings, ventilators; R. S. Glenn, Archt., Cisco, Tex. (Lately noted.)

W. Va., Charleston—Kanawha County Board of Education awarded contract to Acme Construction Co., Charleston, to erect school in Vandalla; cost \$20,000; 4 rooms; Walter F. Martens, Archt., Charleston.

W. Va., Keyser—State Board of Control, Jas. S. Lakin, Pres., Charleston, awarded contract to I. B. & Z. Westfall, Buckhannon, W. Va., to erect girls' dormitory at Potomac State School; 2 stories and basement; contain 60 rooms; A. Zeck & Son, Morgantown, W. Va., plumbing and heating; A. Gillis, Archt., Fairmont, W. Va.

Stores

Fla., Lake Worth—Max Greenburg is reported to have awarded contract for erection of 2-story store building to be fireproof and cost \$20,000.

Fla., Miami—Geo. Weber awarded contract to Edholm & Ellis, to erect 3 stores to cost \$35,000; Spanish architecture, concrete block and stuccoed, with tiled roof, 1 story, 35x80 ft.; H. Geo. Fink, Archt., Miami, Fla.

Fla., Leesburg—A. L. Miller will erect \$25,000 2-story store and apartment building, 83x60 ft., zinc or tin roof, concrete and wood flooring, concrete foundation; Alan J. MacDonald, Archt., Eustis, Fla. Construction by day labor. (Lately noted.)

La., New Orleans—August Nolde contemplates remodeling present building on N. Rampart and Iberville Sts. and construction of an addition, making structure 60x128 ft., 3 stories; cost \$65,000; H. G. Markel, Archt.; G. E. and E. E. Reimann, Contrs.; both New Orleans.

Mo., St. Louis—C. M. Allen, 3604 Florissant St., will erect 2-story brick store and office addition at 36-6-8-10-12 W. Florissant St., to cost \$26,700; 89x46 ft., composition

roof; C. A. Welsch Construction Co., Contr., 119 N. 7th St., St. Louis.

Mo., St. Louis—M. H. Finckwill, 4259 San Francisco, will erect 2-story brick store and tenement building at 5082-84 Union St., to cost \$10,000; 40x40 ft., tar and gravel roof; owner is also Builder and Architect.

Mo., St. Louis—National Bridge Bank Building Co., 4400 National Bridge, will erect 2-story store and office building at 26-27-29-31 Newstead St., to cost \$30,000; 63x72 ft., composition gravel roof; Wedemeyer & Nelson, Archts., Wainwright Bldg.; E. A. Erdbruegge & Son, Contr., 2909 National Bridge; both St. Louis.

Okl., Ponca City—O. F. Keck has contract at \$45,900 to erect business building; brick, 45x140 ft., fireproof, concrete foundation, 2 stories and basement, brick with terra cotta or Bedford stone trim, concrete slab for first floor with steel joist construction above, wood and metal windows, skylights, vault lights, steam heating, electric lighting, plumbing, hand elevator; owner Ponca City News in care of Claude Muchmore; Co-operative Heating & Plumbing Co., heating and plumbing at \$11,225; Kay Electric Co., wiring at \$2393.60; both Ponca City; Clyde H. Woodruff, Archt., Fort Worth, Tex.

S. C., Greenville—Marion Brawley will erect 2-story store building on College St. to cost \$17,000; brick and steel; Potter & Shackelford, Contrs., Martin & Ward, Archts., both Greenville

S. C., Greenville—Minter Homes Co., contractors for Col. W. H. Keith building on Main St., have awarded sub-contract to Morgan-Barr Electric Co., Greenville, for electrical work; Beacham & LeGrande, Archts., Greenville. (Lately noted.)

S. C., Spartanburg—Greer Drug Co. awarded contract to Fiske-Carter Construction Co., Greenville and Spartanburg, S. C., to erect building on Magnolia St.; 2 stories, non-fireproof; Collins & Simpson, Archts., Spartanburg.

Tex., Athens—Prince & Royal, tailors, let contract for erection of 1-story brick business building.

Tex., Austin—Donnelly & White awarded contract to A. W. Johns, Austin, to erect 1-story brick store building at 300 Colorado St.; cost \$20,000, Barber roof, 92x128 ft., cement and concrete flooring, concrete foundation, metal ceilings; Harper & Linscomb, Austin, lighting system; plumbing by owners; W. E. Ketchum, Archt., Austin. (Lately noted.)

Tex., Big Springs—S. A. Hathcock awarded contract to H. H. Padgett to erect fireproof business building.

Tex., Corsicana—W. M. Peck awarded contract to Jno. Carson, to erect six 1-story brick store buildings at Fourth Ave. and Tenth St., cost \$15,202; H. O. Blanding, Archt., Corsicana.

Tex., Dallas—Dr. Oscar Busby awarded contract to H. T. Apple, Dallas, to erect brick business building at Rosemont and Jintown, to cost \$12,000.

Tex., Dallas—J. Ed. Schmitz, Mgr., of American LaFrance Fire Engine Co., awarded contract to Geo. Hewitt, Dallas, to erect 2-story, brick and reinforced concrete building to be used as offices, display rooms, and parts service and for display of fire-lighting apparatus and commercial trucks; second floor for apartments; cost \$35,000, 50x125 ft.; Thomson & Swaine, Archt., Dallas. (Lately noted under Miscellaneous Buildings—Proposed.)

Tex., Sherman—Hall & Hare awarded contract to J. A. Simmons, Sherman, at \$13,800, to erect 1-story brick store building on Wall

St., 144x45 ft., tar and gravel roof, concrete foundation, concrete floors, brick construction, metal ceilings, interior tile, ornamental terra cotta; J. C. Koriath, plumbing; Clyce & Wolfe, Archts., both Sherman, Texas. (Lately noted.)

W. Va., Parkersburg — Brown-Kendall Wholesale Dry Goods Co. awarded contract to Berry Bros., Parkersburg, to erect 6-story, brick and steel addition to present building; cost \$65,000.

Theatres

Fla., Bradentown—J. K. Singletary awarded contract to Robt. G. Cregan, Tampa, to erect theater building on Pine St., south of Manatee Ave.; cost \$70,000; 129x54x40 ft. high; reinforced concrete, brick and interlocking tile construction, John-Manville roof, cement and concrete flooring, concrete foundation, hollow tile, interior tile, metal doors, steel sash and trim, wired glass, ventilators, seating capacity of 1200; art glass windows and lighting effects, auditorium stage will be 48x22 ft., steam heat, marble wainscoting; J. K. Klemmstrud, Bradentown, plumbing and heating; Frank A. Winn, Archt., Tampa. (Lately noted.)

Mo., Kansas City—W. C. Gunn awarded

contract to Harvey Stiver, Kansas City, at \$64,560, to erect 2-story building combining shops, apartments and motion picture theater at 75th and Washington Sts.; 90x110 ft., brick with terra cotta trim; will contain 6 ground floor storerooms, 9 kitchenette apartments on second floor and theater to seat 900; S. B. Tarbet, Archt., Kansas City.

Fla., Marianna—C. C. Liddon & Co. awarded contract to T. W. Langston, Marianna, at cost plus, to erect \$25,000 theater building; 44x125 ft., 1 story and basement, brick construction, wood and concrete flooring, tin roof, concrete foundation, metal ceilings, ventilators; Albert Watson, Marianna, plumbing and heating; no bids desired on sub-contracts; T. J. Walsh, Archt., Pensacola, Fla. (Lately noted.)

Ga., Columbus—Roy E. Martin contemplates erection of \$20,000 theater building on 22nd St. and Second Ave.; brick construction, 40x100 ft., concrete and wood flooring, tin roof, 1 story, T. F. Lockwood, Archt., Columbus; construction by day labor. (Lately noted.)

Warehouses

Fla., Jacksonville—Tyler Grocery Co. awarded contract to O. P. Woodcock, Jack-

sonville, to erect 2-story warehouse; brick and mill construction, cost \$60,000, timber flooring, concrete foundation, built-up roof, metal doors, wire glass, ventilators. (Lately noted.)

Fla., St. Petersburg—Robert Arnold is erecting 3-story warehouse at 651 First Ave. South, to cost \$15,000; brick walls, steel girders and columns; 46x100 ft.; first floor concrete, balance wood; reinforced concrete foundation, 4-ply built-up roof; Hollowell Electric Co., electric work; A. T. Willy, plumbing; both St. Petersburg; C. Ostendfeldt, 820 S. Willow St., Tampa, steel; no bids on sub-contracts desired; S. T. McClaren, Archt. Bryan Apts., St. Petersburg.

N. C., Charlotte—W. L. Nicholson awarded contract to Deal & Wilkinson Construction Co., Charlotte, to erect 3-story warehouse on East Stonewall St., to cost \$54,000; concrete and brick construction, 60x205 ft.; Breeze Engineering Co., Archts, Charlotte.

N. C., Charlotte—C. A. Black will erect \$20,000 warehouse on Cedar St., 1 story and basement, brick and stone construction; W. M. Mahone and J. Y. Orders, Contrs., Charlotte.

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Boiler.—Hackley Morrison Co., Inc. (Mchy. Dealers), 1708 Lewis St., Richmond, Va.—To purchase 35 h.p. locomotive type boiler.

Boiler and Heating Plant Equipment.—Knox Upholstering Co., 300 High St., High Point, N. C.—Prices on equipment for boiler and heating plant.

Brake (Power Bending).—Edward W. Peters, 103 Lower Mulberry St., Danville, Penna.—To purchase one power bending brake to bend ¼-in. steel plate 14-ft. long, to any angle within 18 degrees.

Bridge.—Coleman County, Coleman, Tex. Details under Construction News—Bridges, Culverts, Viaducts.

Bridges.—Harris County, Houston, Tex. Details under Construction News—Road and Street Construction.

Bridges.—Duval County Commrs., Jacksonville, Fla., will build 2 bridges. Details under Construction News—Bridges, Culverts, Viaducts.

Bridges.—Board of Commrs. of Little Rock-Hot Springs Improvement Dist., Little Rock, Ark., will build 5 bridges. Details under Construction News—Bridges, Culverts, Viaducts.

Bridge.—Noxubee County, Macon, Miss. will build 2 bridges. Details under Construction News—Bridges, Culverts, Viaducts.

Brushes and Brooms.—U. S. Marine Corps, Quartermaster's Dept., Washington D. C.—Bids until April 10 to furnish 15,000 corn brooms; 1500 pavement brooms; 300 counter brushes; 500 floor brushes; 1000 white wash brushes and 5000 scrubbing brushes; delivery to 1100 S. Broad St., Philadelphia, Pa. Sch. 415.

Building Materials.—Hubert A. Nieman Lockwood, Mo.—Prices on building material for greenhouse, including glass and heating plant.

Cars (Dump).—Mills Equipment Corp., Chattanooga, Tenn.—Eighteen 12 yd. standard gauge, new style, Western dump cars; also ten 4 yd., K. & J. standard gauge dump cars; state condition, location and price.

Cement.—State Highway Comsn., Old Capitol Bldg., Frankfort, Ky.—Bids until April 7 to furnish cement in carload lots to

Pineville and Falmouth, Ky.; approximate quantities are: 207 bbls. at Pineville; 540 bbls. at Falmouth; delivery in car lots, subject to order; Joe D. Boggs, State Highway Engr.

Coal Elevator.—See Water Works, etc.

Coal Loader.—M. Leland Hendry, Evans Bldg., Washington, D. C.—Prices on portable coal loader.

Concrete Products Machinery.—Burton Concrete Products Corp., Dan Waggoner Bldg., Fort Worth, Tex.—Prices on sewer pipe and drain tile machines, also metal forms for making units of the Burton type.

Condenser (Steam).—D. C. Elphinstone (Mchy. Dealer) 408 Continental Bldg., Baltimore, Md.—One steam condenser, 6-in. header, nine pipe high and nine pipe wide, 4-in. cast iron pipe, tank 40 ft. long; equipment to be used for condensing gases from digest tanks.

Conveying (Gravity) System.—Cambridge Brick Co., Cambridge, Md.—Gravity system for use in handling brick, 10-in. wide, 2-in. ball bearing rollers space 3-in. in steel frame, similar to that made by Matthews Co. of Elwood City, Pa.; second-hand preferred.

Culverts.—T. M. Wingo, Mayor, Ecu, Miss.—Data and prices on culverts for street work.

Curb.—City of Charlotte, N. C., W. S. Stancell, Commr. of Public Works.—Bids until April 4 for 100,000 lin. ft. rough granite curb; plans, etc., from Joseph Firth, Engr.

Curb and Gutter.—City of Alton Park Branch, Chattanooga, Tenn. Details under Construction News—Road and Street Construction.

Crusher.—Ellis, Sparks & Sprinkle Marion, Va.—To purchase second-hand crusher in good condition, capacity 15 tons chips per hour, from ½ to 1-in.

Curtains (Show) and Scenery.—Harlin N. Daniel, Calhoun, Ky.—Data and prices on show curtains and scenery.

Dredge.—D. E. A., Box 312, Daytona, Fla.—To purchase second-hand steam power operated hydraulic dredge with 12-in pipe for filling in work; good condition.

Dredging.—United States Engr. Office, Providence, R. I.—Bids until April 12 to dredge Providence river and harbor.

Dry Kiln.—Knox Upholstery Co., 300 High St., High Point, N. C.—Prices on installing dry kiln.

Electrical Supplies.—U. S. Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until April 5 to furnish 250 ft. of copper wire; 250 ft. heater cord; 100 lock-nuts; 10 shade holders; 4 ornamental street lighting globes; 2 hand electric lanterns; 8 compensators; delivery to Quantico, Va. Sch. 401.

Electric Light Improvements.—See Water Works, etc.

Electric Light and Distribution System.—City Commrs. of Fredonia, Kansas.—Bids until April 14 to construct municipal electric light plant and distribution system consisting of two 300 h.p. Diesel oil engines, generators, switchboards, building electric distributing lines and street lighting system; Arthur L. Mullergreen, Conslt. Engrs., Kansas City, Mo.

Electric Signs.—Lee Highway Filling Station, Inc., Lexington, Va.—To purchase some large outdoor electric signs.

Engine (Steam).—H. W. Dexter (Mchy. Dealers) Box 665, Jacksonville, Fla.—To purchase 300 to 450 h.p. plain valve steam engine, 22 or 24-in. diam. cylinder.

Elevator (Passenger).—Treasury Dept., Supvr. Archt.'s Office, Washington, D. C.—Bids until April 24 to remodel the electric passenger elevator in the U. S. Marine Hospital at Savannah, Ga.

Fabricated Steel.—Wilbur F. Hudson Corp., Contracting Engrs., 50 Church St., New York City.—Names and addresses of steel fabricating shops in the Central South.

Fire Hydrants.—See Pipe (Water.)

Gauges, Pyrometers, etc.—Thos. M. Street, Chief Engr., 88 E. Market St., Wilkesbarre, Pa.—Catalogues and prices on recording steam gauges, draft gauges, pyrometers, etc.; correspond with manufacturers.

Generator Unit.—Water Works, etc.

Glass.—See Building Materials.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Gloves (Leather).—Navy Dept. Bureau of Supplies and Accounts, Washington, D. C.—Bids until April 8 to deliver leather gloves to the Navy Yard, Washington.

Gravel.—Louisiana Highway Comsn., Raymond Bldg., Baton Rouge, La.—Bids until April 22 to furnish approximately 8460 cu. yds. sand clay gravel containing not less than 60 per cent stone retained on ¼-in. screen at an alternate 2820 cu. yds. of washed gravel and 5640 cu. yds. of sand clay gravel, containing not less than 40 per cent stone, retained on ¼-in. screen for surfacing State project 336-B, Winnsboro-Delhi Highway, Franklin Parish; delivered f.o.b. cars Winnsboro; also to furnish approximately 7802 cu. yds. of washed gravel or as an alternate 10,398 cu. yds. of sand clay gravel, containing not less than 60 per cent stone, retained on ¼-in. screen, or as second alternate 3466 cu. yds. of washed gravel and 7932 cu. yds. sand clay gravel, containing not less than 40 per cent stone, retained on ¼-in. screen, for surfacing State Project 374-C, Slaughter-Mississippi State Line Highway, east Feliciana Parish; J. M. Fourmy, State Highway Engr.

Grille.—W. C. Boone, Owensboro, Ky.—Ornamental plaster grille for organ front.

Hardware.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until April 8 to furnish 3 lubricators, ½ pt.; 6 lubricator filling tops; 10,000 tinner's rivets; 20 lbs. brass and copper rivets; 14,100 assorted sizes bolts; 11,500 hexagon nuts; 2100 lock washers, 60 lbs. flat washers; delivery to Marine Barracks, Quantico, Va. Sch. 406.

Heating Plant.—See Building Materials.

Heading Mill.—J. A. Bennett, Purvis, Miss.—Data and prices on the establishment of heading mill.

Hoist (Drum).—C. B. Franklin, Elkin, N. C.—Small drum hoist for hoisting brick and mortar, no power, 200 ft. ½ cable. (See Buildings Proposed—Hotels and Apartments.)

Leather.—U. S. Marine Corps, Quartermaster's Dept., Washington D. C.—Bids until April 9 to furnish 500 lbs. buff leather and 2500 sq. ft. russett leather; delivery 1100 S. Broad St., Philadelphia, Pa. Sch. 414.

Lighting Fixtures.—Auditorium Market House Comsn., J. T. Walsh, Chmn., Memphis, Tenn.—Bids until April 9 for lighting fixtures for market house building; Chas. O. Pfeil & Geo. Awsumb, Archts., 1403 Union and Planters Bank Bldg., Memphis.

Limestone, Screenings, etc.—State High. Comsn., Old Capitol Bldg., Frankfort, Ky.—Bids until April 15 to furnish crushed limestone and limestone screenings in hopper gondolas on siding on Southern Ry., at Shelbyville, Ky.; approximate quantities are: 40,000 and 60,000, furnished at maximum rate of 400 tons per day; Joe D. Boggs, State Highway Engr.

Lumber.—John M. Murch, Galveston County Auditor, Galveston, Tex.—Bids until April 8 for one car of creosoted lumber approximately 16,400 ft. B. M., delivery f. o. b. cars Dickinson, Tex.

Metal Forms.—See Concrete Products Machinery.

Miscellaneous Supplies.—Panama Canal, A. L. Flint General Purchasing Officer, Washington, D. C.—Bids until April 15 to furnish bolts; rivets; nuts; screws; tacks; valves; unions; cocks; a'r compressor; expansion joints; bathtubs; sinks; water coolers; range boilers; grindstones; anchor lights; etc. Blank forms and information (Circular 1508) on application to offices of Panama Canal; Asst. Purchasing Agents at 24 State St., New York; 611 Gravier St.,

New Orleans, La.; Fort Mason, San Francisco Cal.; also United States Engr. offices throughout the country.

Miscellaneous Supplies.—Commercial and Industrial Co., "Transbalt" Riga (Latvia) Russia.—To correspond with manufacturers or dealers in the following: Paper; metals; chemicals; cement; machinery of every description; with view to representation.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Officer, Washington, D. C.—Bids until April 18 to furnish motors; wire; cable; vacuum tubes; lighting arrestors; diver's telephones; plug caps; vibrating bells; mica; plate glass; clocks; oil cups; step ladders; life preservers; copper netting; fire-extinguisher liquid; leather belting; harness and sole leather, etc. Blank forms and information (Circular 1600) on application to offices of Panama Canal, Asst. Purchasing Agents at Fort Mason San Francisco, Cal.

Molder.—Dunlap Lumber Co., 814 Clima St., Greensboro, N. C.—Prices on a 10-in. molder.

Packings, etc.—United States Shipping Board Emergency Fleet Corp., Washington, D. C.—Bids until April 9 to furnish its requirements of packing, valves and gaskets for period of six months.

Paints, etc.—U. S. Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until April 8 to furnish 500 lbs. dry white lead; 10 gals. interior varnish; 100 gals. paint remover; 250 gals. flat white; 10 gals. banana oil; 500 lbs. raw sienna; 150 gals. orange shellac; 100 gals. asphaltum varnish; 100 lbs. prepared floor wax; 1550 gals. French gray paint, etc., delivery to Paris Island, S. C. Sch. 410.

Painting.—John M. Murch, Galveston County Auditor, Galveston Tex.—Bids until April 8 for painting all outside wood and metal work at County Courthouse.

Paper (Postage Stamp), etc.—Treasury Dept., Bureau of Engraving and Printing, Washington, D. C.—Bids until May 12 to furnish bureau with postage stamp paper, brass and iron castings, cleaning of windows, purchase of pulp, ink scrapings, distinctive paper shredded trimmings and postage stamp and Internal Revenue paper trimmings, during the fiscal year beginning July 1, 1924.

Paving.—City of Anniston, Ala.—Details under Construction News—Road and Street Construction.

Paving.—City of Gallatin, Tenn.—Details under Construction News—Road and Street Construction.

Paving.—Board of Aldermen, Morganton, N. C. Details under Construction News—Road and Street Construction.

Paving Materials (Bituminous Cold Patch).—State Highway Comsn., Old Capitol Bldg., Frankfort, Ky.—Bids until April 7 to furnish in tank car lots, delivered f.o.b. at following points in Kentucky: bituminous cold patch material until July 1; separate bids will be received on asphalt cut back, tar cut back and asphalt emulsion; 10,000 gals. at Paris, 10,000 gals. at Winchester, 20,000 gals. at Frankfort, and 10,000 gals. at Danville; Joe S. Boggs, State Highway Engr.

Paving, etc.—City of Huntington, W. Va. Details under Construction News—Road and Street Construction.

Paving, etc.—City of St. Albans, W. Va. Details under Construction News—Road and Street Construction.

Paving, etc.—City of Baltimore, Md. Details under Construction News—Road and Street Construction.

Paving, etc.—City of Italy, Tex.—Details

under Construction News—Road and Street Construction.

Pipe (Water).—The Hollywood Co., 618 American Exchange Bank Bldg., Dallas, Tex.—Cast iron water pipe and fire hydrants.

Pipe (Cast Iron).—Edward W. Peters, 103 Lower Mulberry St., Danville, Pa.—To purchase all sizes of cast iron pipe, either B & S or Universal.

Piping (Cast Iron).—See Pumps and Piping.

Plumbing Supplies.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids opened April 4 to furnish 10 range boilers; 16 cesspools; 500 bibb discs; 500 bibb washers; delivery Marine Barracks, Quantico, Va.

Portable Bake Oven.—U. S. Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until April 9 to furnish one portable bake oven, complete with the following extra parts; 2 sets inside stove pipes; 2 fore doors, 2 fire pots, 2 drums 2 furnace covers; delivery to Hampton Roads, Va.; Sch. 413.

Portland Cement.—U. S. Engineer Office, Box 72, Louisville, Ky.—Bids until April 8 to furnish and deliver approximately 75,000 bbls. of American Portland cement for Dams Nos. 44, 45 and 46, Ohio River.

Potato Chip Machinery.—Leitchfield Natural Gas Co., Leitchfield, Ky.—Data and prices on machinery for making potato chips.

Power Houses for Dams.—United States Engr. Office, Cincinnati, Ohio.—Bids until April 7 to construct fireproof power houses at dams Nos. 34, 36 and 38, Ohio river.

Power Plant Improvements.—City of Farmville, N. C. Details under Construction News—Electric Light and Power Plants.

Power Plant.—U. S. Engineer Office, Cincinnati, Ohio.—Bids until April 7 to construct power houses at dams Nos. 34, 36 and 38 Ohio River.

Pumps and Piping.—Board of Awards, F. A. Dolfeld, Register, City Hall, Baltimore, Md.—Bids until April 9 to install motor-operated pumps and cast iron piping in Pumping Station No. 1 at the Baltimore Sewage treatment works; Bernard L. Crozier, Highways Engineer.

Rails, etc.—M. Lelend Hendry, Evans Bldg., Washington, D. C.—Prices on relaying rails and fastenings suitable for side track, 50, 60 or 80 lb. rails and steel eye beams 16s or multiples for 128 ft. coal trestle, B and O. delivery.

Riprap.—United States Engr. Office, Detroit, Mich.—Bids until April 18 to furnish and replace and recover and replace stone riprap at Harbor Beach, Harbor, Mich.

Road.—Liberty County, Liberty, Tex. Road and Street Construction.

Road.—Terrell County, Sanderson, Tex. Details under Construction News—Road and Street Construction.

Road.—Smith County, Tyler, Tex.—Details under Construction News—Road and Street Construction.

Road Grader.—W. H. Lee, Coureo, Tex.—Data and prices on 7-ft. blade, mule grader for gravel road.

Road.—Wingo County, Williamson, W. Va., will improve 4 roads.—Details under Construction News—Road and Street Construction.

Roads.—Harris County Houston, Tex., will improve 4 roads.—Details under Construction News—Road and Street Construction.

Roads.—Harris County, Houston, Tex., Details under Construction News—Road and Street Construction.

Road.—Charles City County, Charles City, Va., will improve 4 roads. Details under Construction News—Road and Street Construction.

Road.—Louisiana Highway Comm., Baton Rouge, La. Details under Construction News—Road and Street Construction.

Road.—State Highway Comm., Frankfort, Ky. Details under Construction News—Road and Street Construction.

Road.—State Road Dept., Tallahassee, Fla. Details under Construction News—Road and Street Construction.

Safety Razor Manufacturing Equipment.—Everts Angle Razor Corporation, Broadway and Jennings Ave., Fort Worth, Tex.—Equipment for the manufacture of 2000 safety razors daily.

Sewer.—City of Ashland, Ky. Details under Construction News—Sewer Construction.

Sewer Construction.—City of Mooresville N. C.—Details under Construction News—Sewer Construction.

Sewer Construction.—City of Richmond, Va.—Details under Construction News—Sewer Construction.

Sewer Construction.—City of Greer, S. C.—Details under Construction News—Sewer Construction.

Sewer Construction.—City of Ashland, Ky. Details under Construction News—Sewer Construction.

Sewer.—City of Italy, Tex.—Details under Construction News—Road and Street Construction.

Shovel (Electric).—J. F. Foster, 294 Washington St., Boston, Mass.—To purchase ¾-yd. electric shovel, 3 phase, 60 cycle, 220 volts; state condition and type.

Sidewalks.—City of Lynchburg, Va. Details under Construction News—Road and Street Construction.

Sidewalks.—City of Leesburg, Fla. Details under Construction News—Road and Street Construction.

Signs (Tin) Machinery.—Albert L. Conway, Contr., Orme Bldg., 411 Bienville St., New Orleans, La.—To correspond with manufacturers of machinery to make tin signs for advertising.

Signs (Road).—Lee Highway Filling Station, Inc., Lexington, Va.—To purchase some metal road signs.

Steel Barge.—U. S. Engineer Office, Jacksonville, Fla.—Bids until April 30 to construct one steel barge, 80x26x6-ft. for the dredge Barnard.

Steel Roofing, Etc.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until April 7 to furnish 4100 sheets steel roofing, 24 gauge; 2000 lbs. roofing nails; 2200 lin. ft. ridge roof; delivery to Naval Operating Base, Hampton Roads, Va. Sch. 399.

Stone.—W. M. Megert, Judge, Deaf Smith County Commissioners' Court, Hereford, Tex.—Prices on stone.

Street Improvement.—City of Warrenton, N. C.—Details under Construction News—Road and Street Construction.

Surface Condenser.—Water Works, etc.

Textile, etc.—U. S. Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until April 14 to furnish: 50,000 yds. burlap; 30,000 yds. crash toweling; 50,000 lbs. cotton waste; 30,000 yds. muslin; 100 yds. sleeve lining, striped sateen; 500 yds. white

vest lining; 500 yds. black silesia; 10,000 spools sewing silk; and 500 lbs. cotton line; delivery to 1100 S. Broad St. Philadelphia, Pa. Sch. 417.

Traps (Rat).—O. F. Bunn, Pres., The Bunn Rat Trap Corp., Tenn.—To contract for the manufacture of rat traps also data on machinery for making the traps.

Water Works, etc.—City of Metropolis, Ill., A. N. Starkes, Mayor.—Bids until April 24 to construct municipal water works system and electric light improvements; to furnish labor, tools, materials, machinery and appliances for the following in separate sections: Real estate for power house site; power station, coal bunker and coal dump; concrete chimney, 66-in x 150-ft.; reinforced concrete surface water reservoir, 200,000 gal. capacity; 190 cu. yds. concrete machinery foundation; two water tube boilers, 200 h.p. each, erected; coal elevator, conveyor and erection; 120 ft. water tower, 100,000 gal. steel tank; engine, generator and switchboard; surface condenser, closed heater; boiler feed pumps, steam and water specialties; power plant, pipe work and covering; pumping equipment including four motor driven centrifugal pumps; 27-ft. x 12-in. deep well, cased; electrical connection and station wires; cast iron water pipe; valves and hydrants; pipe laying, valve and hydrant setting; 500 k.w., .8 p.f. generator unit, Unaflo N.R.C. or Turbine; W. A. Fuller Co., Engr., Railway Exchange Bldg., St. Louis, Mo.

Waterworks.—Public Works Comsn., Harry L. Shaner, Commr., Winston-Salem, N. C.—Details under Construction News—Water-Works.

Wire Screening.—U. S. Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids opened April 4 to furnish 1334 rolls wire screen cloth; delivery Philadelphia, Pa. and 7 rolls wire screening, delivery to Parris Island, S. C.; Sch. 400.

Woodworking Machinery.—Knox Upholstery Co., 300 High St., High Point, N. C.—Prices on woodworking machinery.

Financial News

New Financial Corporations

Ala., Pratt City—Pratt City Savings Bank, capital \$25,000, incorporated by S. T. Key, J. E. Lacey and others.

Ala., Sylacauga—Peace Investment Co., Inc., capital \$10,000, incorporated by M. W. and A. M. Peace and others.

D. C., Washington—Surety Investment Co., capital \$330,000, incorporated by Andrew J. Hutterby, Fred A. Hartung and others.

Fla., Daytona—Peoples' Building & Loan Co., 31 Orange Ave., capital \$500,000, incorporated with J. L. Wetherby, Pres.; Max Leiderdorf, Sec.

Fla., Lake Wales—State Bank of Babson Park, capital \$20,000, chartered with E. L. Wirt, Pres., Bartow; Lane T. Smith, Cash., Lake Wales.

Fla., West Palm Beach—Home Finance Corp., capital \$300,000, chartered with A. H. Lauenborg, Pres.; Gordon North, Sec.

La., Shreveport—Morgan Plan Bank, 726 Milam St., capital \$100,000, chartered with Edwin Morgan, Pres., Birmingham, Ala.

Md., Baltimore—Standard Note & Acceptance Corp., 1208 E. Baltimore St., capital \$200,000, incorporated by Aaron H. Rosenteln, Wm. Kravass and others.

Md., Baltimore—Titan Building Assn., Inc., 1101 Fidelity Bldg., capital \$520,000, incorporated by John S. Davenport, R. Earl Greenlee and others.

Md., Baltimore—Real Estate Trustees, Inc., Calvert Bldg., capital \$250,000, organized with Milton Roberts, Pres.; A. W. Mears, Sec.-Treas.; plans later to develop into trust company; specializing in all forms of real estate financing and service.

Mo., Hawk Point—People's Bank, capital \$15,000, organized with Wm. Kowazek, Pres.; John Barbee, Sec.; Richard H. Brown, Cashier; will take over assets and assume liabilities of Bank of Hawk Point.

Mo., St. Louis—Alliance Finance Co., capital \$10,000, incorporated by E. T. Fishbein, Antony Canzoneri, Wainwright Bldg., and others.

N. C., High Point—John C. Abels plans organizing Life Insurance Company.

Okla., Bristow—Community State Bank, capital \$40,000, incorporated by C. E. Foster, Joe Abraham and others.

Okla., Eufaula—Farmers and Merchants Bank, capital \$50,000, incorporated by M. E. Turner, B. C. Janeway and others.

S. C., Greenwood—J. P. Abney, J. C. Self, W. T. Bailey, and others interested in organizing Mutual Building & Loan Assn., with \$250,000 capital.

S. C., Lauren—Peoples' Enterprise Bank, capital \$100,000, incorporated with C. H. Roper, Pres.; J. W. Todd, Jr., Cashier.

Tenn., Knoxville—Cumberland Bank & Trust Co., capital \$500,000, incorporated by Thomas N. Williams, Willis H. Fowle and others.

Tenn., Knoxville—Commercial Bank & Trust Co., capital \$500,000, chartered by Thos. N. Williams, Willis Fowle, W. B. Hill and others.

Tex., Chillicothe—First National Bank of Chillicothe, capital \$25,000, chartered with W. R. Ferguson, Pres.; L. J. Nuckles, Cashier; conversion of Guaranty State Bank, Chillicothe.

Tex., Detroit—Guaranty State Bank, capital \$25,000, organized with T. D. Wilson, Pres.; F. D. Inzer, Cashier.

Tex., Fort Worth—Caswell Motor Trust Co., capital \$20,000, incorporated by C. B. Caswell, H. B. Shanklin and others.

Tex., Houston—West Mortgage & Loan Co., capital \$50,000, incorporated by C. B. Granbury, T. H. Monroe and others.

Tex., Rusk—Cherokee County Abstract Co., capital \$25,000, incorporated by W. H. Hanna, G. A. Grogard and others.

W. Va., Smithers—Smithers Mortgage & Finance Co., capital \$20,000, incorporated by V. H. Crawford, J. B. Moon and others.

New Securities

Ala., Florence—City, T. B. Smith, Clk., will receive bids until April 15 for \$315,000, 6% bonds.

Ala., Florence—Improvements—City sold \$315,000 to \$366,000 6% bonds jointly to Marx & Co., Birmingham, and Caldwell & Co., Nashville, Tenn., at 96 plus accrued interest.

Ala., Mobile—Paving—City, R. V. Taylor, Mayor, sold \$280,000 5% bonds to Caldwell & Co., Nashville, Tenn., at par, accrued interest and premium of \$700.

Ala., Talladega—Gas Plant—City voted \$75,000 bonds. Address The Mayor.

Ala., Tuscaloosa—Road—Tuscaloosa County Board of Revenue will vote May 13 on \$600,000 bonds.

Ark., Gillett—Levee—Board of Comms. Farley Lake Levee Dist. of Arkansas and Jefferson Counties, will receive bids at office of A. W. Dobyns, 314 Markham St. Little Rock, until April 4 for \$170,000, 6% bonds; J. B. Quinn, Sec.

Ark., Pine Bluff—Road Improvement—Jefferson County sold \$250,000 5½% Plum Bayou Road Improvement Dist. bonds to Kauffman, Smith & Co., St. Louis, Mo.

Ark., Texarkana—City Hall—City contemplates \$250,000 bond issue. Address The Mayor.

Fla., Bartow—School—Polk County sold \$12,000 6% Special Tax School Dist. No. 6 bonds to Bumpus, Hull & Co., Detroit.

Fla., DeLand—School—Volusia County, Geo. W. Marks, County Supt., will receive bids until April 24 for \$125,000 5½% Special Tax School District No. 6, Daytona, bonds; and \$120,000 5½% Special Tax School District No. 12 bonds.

Fla., DeLand—School—V. W. Gould, Chmn. Board of Public Instruction, sold \$30,000 6% Volusia County Special Tax School Dist. No. 9 bonds to Prudden & Co., Toledo, Ohio, at premium of \$1351.

Fla., Fort Lauderdale—Highway, Port and Harbor—Broward County sold \$200,000 bonds to Fort Lauderdale Bank & Trust Co.

Fla., Fort Meade—Street Paving—City voted \$23,000 bonds. Address The Mayor. (Lately noted.)

Fla., Fort Pierce—School—City sold \$130,000 6% Fort Pierce Special Tax School Dist. No. 2 bonds to Fort Pierce Bank & Trust Co. at 108.33.

Fla., Fort Lauderdale—Bridge—City will vote April 19 on \$75,000 bonds. Address The Mayor.

Fla., Lake Stearns—School—City voted \$15,000 bonds. Address Board of Education.

Fla., Live Oak—Street Paving, Water, Sewer, Building, etc.—City, C. E. Jones, Mayor, defeated \$168,500 bond issue. (Lately noted to vote.)

Fla., Molino—School—Molino School Dist. voted \$6000 bonds; Wm. Tyler, School Supt.

Fla., Moore Haven—Road and Bridge—Glades County Comms. will receive bids until April 9 for \$75,000 6% Indian Prairie Special Road and Bridge Dist. No. 10 bonds; N. S. Wainwright, Clk. of Circuit Court.

Fla., Ocala—School—Ocala Special Tax School Dist. No. 1, will vote April 22 on \$100,000 bonds; H. G. Shealy, Supt. of Public Instruction of Marion County.

Fla., Seabreeze—Municipal Improvements—City sold \$165,000 bonds to Ryan, Bowman & Co., Toledo, Ohio, at par and accrued interest. (Lately noted voted bonds.)

Fla., Tallahassee—Time Warrants—Leon County Board of Comms. will receive bids until April 7 for \$60,000, 6%, \$1000 denom. bonds; Paule V. Lang, Clk.

Fla., Tampa—School—Hillsborough County, J. E. Knight, Sec. Board of Public Instruction, will receive bids until April 10 for \$60,000 6% Hillsborough County Special Tax School Dist. No. 45 bonds.

Fla., Wauchula—School—S. B. Hogan, Chmn., Board of Public Instruction, sold \$20,000, Wauchula Special Tax School Dist. bonds to Hanchett Bond Co., Chicago, Ill.

Ga., Elberton—Water—City voted \$40,000 bonds. Address The Mayor.

Ky., Dayton—School—City voted \$25,000 bonds. Address The Mayor.

Ky., Paducah—School—J. E. Coleman County School Supt., will call election April 30 to vote on bond issue.

Ky., Whitesburg—Road and Bridge—Letcher County will sell \$210,000 bonds. Address Letcher Fiscal Court. (Lately noted voted bonds.)

La., Houma—Terrebonne Parish, Road Dist. No. 7, will receive bids until April 9 for \$35,000, 6% bonds; J. L. Caillouet, Pres. Police Jury.

La., Alexandria—Road and Refunding—Rapides Parish Police Jury will receive bids until April 15 for following bonds: \$55,000 road and refunding; \$35,000 Road Dist. No. 13; \$22,500 Road Dist. No. 28; \$15,000 Road Dist. No. 29; R. H. Jackson, Pres. Police Jury.

La., Homer—Road—Claiborne Parish will vote April 25 on \$800,000 bonds. Address Parish Police Jury. (Lately noted to vote April 19.)

La., Lafayette—Water and Light—City Board of Trustees, Robert L. Moulton, Mayor, voted \$200,000 bonds. (Lately noted to vote.)

La., Monroe—School—Ouachita Parish School Board will call an election April 15 to vote on \$125,000 bonds. Address Pres. Board.

Miss., Ecu—Sidewalk—Town, T. M. Wingo, Mayor, will receive bids until April 17 for \$10,000 5½% bonds. (Lately noted until March 25.)

Miss., Meridian—School, Street—City sold \$500,000 school bonds to Canal-Commercial Trust & Savings Bank, New Orleans, La., at 5½%, with accrued interest and par and premium of \$5250; \$166,000, street bonds, to Meridian Finance Corporation, at 5½% with accrued interest and par and premium of \$1055.

Miss., Bay St. Louis—Seawall—City voted \$225,000 bonds. Address The Mayor.

Mo., Blue Springs—School—City sold \$35,000 5% bonds to Fidelity National Bank & Trust Co., St. Louis.

Mo., Caruthersville—School—City voted \$140,000 bonds; C. F. Bloker, Sec. School Dist.

Mo., Farnheit—School—City voted \$22,000 bonds. Address Pres. School Board.

Mo., Kansas City—Water Works Improvement—Fire and Water Board, Fred E. Turner, Pres., contemplates selling \$3,300,000 bonds.

Mo., St. Joseph—Hospital—Board of Missouri Methodist Hospital sold \$500,000 bonds to Lorenzo E. Anderson and Wm. C. Biting Co., both St. Louis, Mo.

Mo., Sedalia—City Hall and Hospital—City, N. L. Nelson, Clk., sold \$100,000 city hall and \$10,000 hospital bonds to National City Bond Co., Chicago, Ill., at premium of \$1156.

Mo., Stockton—School—Board of Education will sell \$50,000 bonds to Commerce Trust Co., Kansas City Mo., at par. (Lately noted voted bonds.)

N. C., Albemarle—School—Board of Comms., will receive bids until April 9 for \$60,000, \$1000 denom. bonds; L. C. Russell, Town Clk.

N. C., Beaufort—Street Improvement—City, M. A. Hill, Clk., will receive bids until April 24 for \$150,000 6% bonds.

N. C., Charlotte—Municipal Improvement—City Comms. authorized selling \$1,500,000 bonds as follows: \$398,000 sewer; \$52,000 septic tank; \$800,000 street improvement; \$250,000 water extension; Edgar Read, City Clk.

N. C., Gastonia—Stadium—City contemplates \$25,000 bond issue. Address The Mayor.

N. C., High Point—Municipal Improvements—City, Ed. L. Ragan, Sec., plans \$709,-

000 bond issue, including \$180,000 street improvement; \$299,000, sewer system extension; \$200,000, water works extension; \$30,000, electric lighting system extension.

N. C., Mebane—Street Improvement—City sold \$25,000 coupon bonds to J. C. Mayer & Co., Cincinnati, Ohio, at par.

N. C., Southport—School—Brunswick County contemplates \$250,000 bond issue; B. R. Page, Supt., County Board of Education.

N. C., Spindale—Water, Electric Light and Power Systems—Town, Fred C. Kinsey, Clk., plans \$117,000 bond issue, including \$100,000 for water and \$17,000 for electric light and power system improvements.

N. C., West Jefferson—Water Works—City voted \$25,000 bonds. Address The Mayor.

N. C., Wilmington—Water Works, Fire Protection, Underpass—City will receive bids until April 16 for \$100,000 bonds. Address The Mayor.

N. C., Whitakers—Electric Light—City sold \$10,000, 6% coupon bonds to Bank of Whitakers at par and accrued interest.

Okla., Bristow—School—Van D. Strout, Sec. Board of Education, will receive bids until April 19 for \$135,000 5% bonds.

Okla., Comanche—Sewer and Extension—City defeated \$95,000 bonds. Address The Mayor.

S. C., Denmark—Street Paving and Sewer—City voted \$66,000 bonds, including \$33,000 for paving, and \$33,000 for sewer; Ryan Engineering Co., Engrs, Columbia, S. C. (Lately noted to vote.)

S. C., Latta—Sewer, Water—City sold \$27,000 sewer and \$33,000 water bonds to Bank of Charleston, Charleston, S. C., at premium of 96.49.

S. C., McColl—Street Improvement and Paving—City rejected bids on \$100,000, 5½% bonds; D. L. McLaurin, Mayor. (Lately noted bids until March 24.)

Tenn., Cookeville—Water and Sewer—City sold \$100,000 6% water and sewer bonds to American National Co., Nashville, Tenn., at 100.76.

Tenn., Jackson—Municipal Improvements—City, Lawrence Taylor, Mayor, will vote May 1 on \$890,000 bonds, including street improvement, \$500,000; water plant, \$150,000; schools, \$115,000; city hall, \$125,000. (Lately noted to vote March 26.)

Tenn., Knoxville—Revenue—City, Louis Brownlow, City Mgr., sold \$600,000, 4¼% bonds to Bankers Trust Co., New York, at par.

Tenn., Nashville—Railroad—Board of Public Works sold \$900,000 5% Tennessee Central R. R. refunding bonds to Seasongood & Mayer, Cincinnati, Ohio, for \$922,955.

Tex., Archer City—Road—Archer County, Road Dist. No. 2, voted \$300,000 bonds; E. M. Hooper, County Judge. (Lately noted.)

Tex., Austin—Tucker Royal, Chmn., Board of Regents, University of Texas will receive bids until April 15 for \$1,000,000 bonds.

Tex., Bellville—Road—Austin County, Precinct No. 1, voted \$450,000 bonds. Address County Comms. (Lately noted.)

Tex., Boston—Road—Bowie County, Hooks Dist., voted \$50,000 bonds. Address County Comms.

Tex., Cameron—Road—Milam County, Precinct No. 10, will vote April 26 on \$75,000 bonds; Jeff T. Kemp, County Judge.

Tex., Cameron—Road—Milam County will vote April 28 on \$125,000 bonds; A. E. Mitchell, County Engr.; Jeff T. Kemp, County Judge.

Tex., Denton—School—City will vote April

(Continued on page 160)



An engineer once said of our foundry:

"It is wonderful how they make this pipe, the care, thought, and endeavor they put in its manufacture."

United States Cast Iron Pipe & Foundry Co.

General Office, Burlington, New Jersey

SALES OFFICES:

Philadelphia, 1421 Chestnut St.

San Francisco, Monadnock Bldg.

Dallas, Magnolia Bldg.

Pittsburgh, Henry W. Oliver Bldg.

Kansas City, Mo., Interstate Bldg.

Minneapolis, Plymouth Bldg.

New York, 71 Broadway

Cleveland, 1150 E. 26th St.

Chicago, 122 S. Michigan Blvd.

Buffalo, 957 E. Ferry St.

Birmingham, 1002 American Trust Building

(Continued from page 158)

30 on \$25,000 bonds. Address Pres. School Board. (Lately noted to vote April 5.)

Tex., Dennison—Street, Water, Sewer, School—City sold \$175,000, 5% coupon bonds to S. R. Fuller, Dennison.

Tex., El Paso—School—El Paso School Board plans \$500,000 bond issue. Address Pres. School Board.

Tex., Henderson—Street Paving—City voted \$100,000 bonds. Address The Mayor.

Tex., Floresville—Water—City will vote latter part of April on \$70,000 bonds. Address The Mayor.

Tex., Floydada—Water-Works, Sewer—City voted \$60,000 bonds. Address The Mayor. (Lately noted to vote.)

Tex., Hillsboro—Road—Hill County voted \$50,000 bonds; J. E. Estill, County Engr.; W. L. Wray, County Judge. (Lately noted.)

Tex., Hughes Springs—School—Hughes Springs Independent School Dist. voted \$27,000 bonds. Address Pres. School Board.

Tex., Huntsville—Road—Walker County voted \$1,500,000 bonds; A. T. McKinney Jr., County Judge. (Lately noted to vote.)

Tex., Kleburg—School—City voted \$15,000 bonds. Address Pres. School Board. (Lately noted to vote.)

Tex., Kountze — Road—Hardin County voted \$125,000 bonds. Address County Commrs.

Tex., Laredo—Street Paving—City, S. Cellius, Mayor, voted \$80,000 bonds. (Lately noted.)

Tex., Littlefield—School—City voted \$80,000 bonds. Address Pres. School Board.

Tex., Luling—School—City voted \$100,000 Luling Independent School bonds. Address The Mayor.

Tex., Marshall—Street Improvement—City contemplates voting on \$150,000 bonds, including \$50,000 for street improvement and \$100,000 for city hall. Address City Attorney Caven.

Tex., O'Donnell—School—School Board sold \$25,000 bonds to Harry Taylor, of Texas Investment Co., Amarillo, at par, accrued interest and premium of \$500.

Tex., O'Donnell—School—O'Donnell Independent School Dist. voted \$25,000 bonds. Address Pres. School Board.

Tex., Pharr—School—J. E. W. Thomas, Dallas, Tex., purchased \$50,000 Pharr-San Juan Independent School bonds.

Tex., Venus—Street Improvement—City sold \$20,000 6% bonds to Matheny, Dixon & Co., Springfield, at premium of \$160.

Tex., Vernon—Road—Wilbarger County voted \$150,000 bonds; O. T. Warlick, County Judge.

Tex., Waco—Gymnasium and Athletic Field, Sewers—City, Geo. D. Field, Sec., will receive bids until April 7 for \$135,000 bonds, including \$75,000 for gymnasium and athletic field and \$60,000 for sewers.

Tex., Waco—Sewer and School—City, R. L. Stribling, City Comptroller, will purchase \$55,000 of \$75,000 sewer bonds, and \$42,000 of \$60,000 school bonds.

Va., Blacksburg—Sewer—City voted \$50,000 bonds. Address The Mayor.

Va., Hopewell—School—Court House and Jail, and Fire Equipment—City plans calling election to vote on \$200,000 bonds, including \$125,000 for school, \$50,000 for court house and jail, and \$25,000 for fire equipment; Mrs. Ollie L. Thurston, Clk. Common Council of City of Hopewell.

Va., Portsmouth—Sewer and Paving—City, J. P. Jervey, City Mgr., will receive bids

until April 8 for \$360,000, 5%, \$1000 denom. bonds.

Va., Suffolk—Street Improvement—City contemplates \$200,000 bond issue. Address City Mgr.

W. Va., Morgantown—School—W. S. John, Sec. Board of Education of Monongalia County, will receive bids until April 15 for \$600,000, 4% bonds.

W. Va., Philippi—Road—Barbour County, Union Dist., voted \$325,000 bonds. Address County Commrs.

Financial Notes

Bristow Building & Loan Assn., Bristow, Okla., increased capital from \$500,000 to \$1,000,000.

Cocoa Bank & Trust Co., Cocoa, Fla., increased capital from \$25,000 to \$50,000; L. S. Andrews, Pres.; changed name from Bank of Cocoa.

First National Bank, Miami, Fla., plans in-

creasing capital from \$300,000 to \$600,000; Edward C. Romfh, Pres.

Lafayette Mutual Building Assn., St. Louis, Mo., increased capital from \$1,000,000 to \$1,500,000.

Morgantown Savings & Loan Assn., Morgantown, W. Va., increased capital from \$3,299,400 to \$5,249,400.

Oak Cliff Building & Loan Assn., 114 Kirby Bldg., Dallas, Tex., plans increasing capital from \$1,000,000 to \$5,000,000.

Oakcliff Building & Loan Assn., Dallas, Tex., increased capital from \$1,000,000 to \$5,000,000.

Quarter Savings & Trust Co., Wheeling, W. Va., changed name to Union Trust Co., and increased capital from \$200,000 to \$500,000; Geo. J. Mathison, Pres.

Rio Finance & Mortgage Corp., Urbana, Va., increased capital from \$50,000 to \$75,000.

Union & Planters Bank & Trust Co., Memphis, Tenn., plans increasing capital from \$2,000,000 to \$3,000,000; Gilmer Winston, Senior V.-P.

Union Building & Loan Assn., Bartlettville Okla., increased capital from \$250,000 to \$500,000.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Room for More Industries.

The Dillon Chamber of Commerce, Dillon, S. C., reports that there is plenty of room there for more industries and there is a good supply of cheap labor. Morris Fass is president. The Carolina Milling Company, Inc., of Dillon, reports as an instance of its capacity that it can produce 100 tons of feeds in 10 hours, 500 bushels of meal and 24 barrels of self-rising flour. It is one of the largest mills of its kind in the South.

Pipe Plant and Stock Purchased.

The Albert Pipe Supply Co., of Brooklyn, N. Y., has purchased from the Eagle Pipe Supply Company also of Brooklyn, their entire stock of pipe, tubing and fittings, together with several pipe threading machines. There are about 750 tons of material. The plant was also taken over and it will be used by the purchasers as a warehouse to store surplus pipe so that they will be in better position to carry a larger and more varied assortment. The plant has a railroad siding that can accommodate twelve cars loaded with pipe.

Large Contract for Ventilating.

The contract for ventilating equipment, consisting of fans and air washers, in the new Lewis J. Bennett High School at Buffalo, N. Y., has been awarded to the Buffalo Forge Company of that city and there will be installed four main supply fans and four main exhaust fans of the Buffalo conoidal type, eight disc fans of various sizes for toilet and laboratory exhaust purposes, and two special air washers of the Carrier Type A construction. The air washer pumps will be of the Buffalo Steam Pump Co. make. The heating and ventilating contractor is the Power Efficiency Company of Buffalo. This school building, designed by the Buffalo Associated Architects in consultation with the Wm. B. Ittner Company of

St. Louis, will be fireproof, four stories high and of brick and concrete construction, covering an area of about 320 by 240 feet. It will cost about \$2,700,000.

Chicago Agent Appointed.

Roy G. Owens, 811 Steger Building, Chicago, is now handling Chicago sales territory as Chicago agent of the Northwest Engineering Company, of 28 East Jackson Boulevard, also in that city. Mr. Owens has been in the construction industry during his entire business life, first in general and builders' hardware lines, then with the sales force of the Texas Portland Cement Co.; next with the Wiley Chute Company, of which he was later proprietor. Then he became general sales manager of the Milwaukee Concrete Mixer Co., while he was running his own business with which he was connected until 1917. In the latter year he was in charge of sales after the consolidation of the Milwaukee company with the Lakewood Engineering Co. He is thoroughly posted on crane and shovel problems.

A Prosperous Year Indicated.

At a recent meeting of the board of directors of the Westinghouse Electric & Manufacturing Company, when they approved an offering to stockholders of nearly \$18,000,000 par value of additional common stock, Gen. Guy E. Tripp, chairman of the board, said that figures available for the first ten months of the company's year up to January 31 indicate that the volume of business for that year will probably exceed \$150,000,000. Continuing he stated: "The board of directors believe that the demand for the products of the company will continue to increase and they have therefore approved plans for additional manufacturing facilities to be provided during the next two years. These plans will require not only further capital expenditures, but also additional working capital."

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

PROFITABLE PAPER MAKING POSSIBILITIES SOUTH

Many Southern localities have the bases of ample raw material, cheap power, favorable distributing facilities and other factors to guarantee economic production and distribution of "Kraft papers."

Is your community interested in establishing such an industry?
If so, we shall be glad to suggest architects or engineers.

Write us



A BIRD'S-EYE VIEW OF OUR PLANT

THE PUSEY AND JONES COMPANY
WILMINGTON, DELAWARE

"Paper making machinery—for fifty years"

We build paper making machinery, centrifugal pumps, autoclaves, friction clutches, river steamers, tug boats and barges.

H. D. Megary.

H. D. Megary, managing director of the Consolidated Pneumatic Tool Company, London, England, died in that city March 20. Meagre news by cable indicates that his illness was sudden and short and that his death was due to septic poisoning. Mr. Megary was a native of Philadelphia, Pa., 36 years of age. After graduating at the University of Pennsylvania in 1909 he was affiliated with the Bethlehem Steel Co., and continued with it until June, 1918, when he became connected with the Chicago Pneumatic Tool Company as assistant to the president, later being made secretary of the company. In 1921 he was transferred to London to assume his duties with the English organization. In addition to being managing director he was also director of European sales.

Hot Dip Galvanizing.

The Bessemer Galvanizing Works, Incorporated, Birmingham, Ala., have issued a booklet called "Cold Facts About Hot Dip Galvanizing." It tells about the several advantages of galvanizing iron or steel material by the hot dip process which, it is stated, produces the heaviest possible coating of zinc. It is claimed that when done by this method galvanizing is permanent. The hot dip process was invented by H. W. Crawford, of England, the material to be coated being dipped in a kettle of molten zinc and kept there until the two metals become of the same temperature. Thus the pores of the material are opened and absorb the melted zinc so that it becomes heavily coated. The booklet contains many important facts and there are several illustrations.

Sale of Motor Plant to Take Place.

Elsewhere in this issue appears a formal announcement of the receivers' sale of the Ace Motor Corporation plant located at Erie Avenue and Sepviva Street, Philadelphia, Pa., to take place on Tuesday and Wednesday, April 22 and 23, respectively, beginning at 10 o'clock A. M. each day on the premises. In general the sale consists of real estate, service rights, goodwill, patterns and dies, machinery and equipment. Particulars and details are given in the advertisement. Samuel T. Freeman & Co., 1519-21 Chestnut St., Philadelphia, are the auctioneers, who will supply illustrated catalogs on request.

Declares That Most of Our Gold Reserve Today Is Really Owned by Europeans.

HENRY A. FOSTER, 32 Liberty Street, New York.

Since the practical demonetization of gold in Europe, Africa and South America, individual owners of gold coin in all the continents where it is today demonetized have sent their gold coin here for investment in our interest bearing securities payable in gold. Today in equity at least, Europeans own and we owe, the bulk of our gold reserve.

In lands wherein no free gold market exists, wherein gold coin is not allowed to circulate or is not allowed to leave the realm—Europe, Africa and South America—there is no local use for gold coin outside of a moderate deposit in the national banks of such irredeemable paper money lands awaiting the time when they resume specie payments. Consequently the citizens or subjects of the paper money lands deposit their gold coin here; exchange it for United States Liberty Loan, state and municipal bonds all expressly payable in gold; draw good interest on their purchases and yet at the same time by selling their gold bonds they may recall the gold upon demand.

With the first World War every South American nation went back to depreciated paper money and the gold standard was abandoned there for local circulation.

"Monetary Standards in South American countries;" Edwin W. Kemmerer, Professor of Economics and Finance; Princeton University; Vol. X, No. 2, top paging 45-56, Proceedings of the Academy of Political Science in the City of New York.

There is not a free gold coin market either in Europe, Africa, South America, or in any of the British Dominions or Possessions (except Canada whose paper currency equals ours, but which has no gold coin), of which I understand South Africa is the most anxious to restore a free gold market, and resume gold payments.

The result is that outside of the national banks in the solvent part of Europe, which have more gold than they had in 1913, gold coin is of no use to any European, African or South American individual, private banker or corporation.

When it is illegal to circulate gold coin in continents where there is no free gold market, why should not the South Americans, South Africans and Europeans deposit their gold here, and take in exchange for it our best securities, all of which are expressly payable in gold coin with good interest? Except with our silver certificates, which are redeemable in silver, but are in effect redeemable in gold because of the Act of Congress requiring all silver dollars to be payable in gold on demand, all our United States currency and securities are payable in gold.

Then again many Europeans do not trust their governments, and think their gold exchanged for our first-class bonds payable in gold is safer here than there.

Foreigners buy many of the gold bonds of the better South American nations that are at present issued here because

we have the one free gold market large enough to take care of such issues. These South American bonds are not only payable in gold, but in gold equal to the present United States standard of weight and fineness. Today foreigners own most of them.

Begin Construction of 60-Mile Transmission Line.

Charleston, W. Va.—The West Virginia Water & Electric Co. of this city has begun construction of a 60-mile transmission line to connect with the lines of the Kentucky and West Virginia Electric Co. at Logan. Both of these companies are subsidiaries of the American Gas & Electric Co. of New York.

The Kentucky and West Virginia Electric Co., with offices at Huntington, has power plants at Logan, and Sprigg, W. Va., and Hazard, Ky., with a combined capacity of 80,000 horsepower, while the Charleston plant of the West Virginia Water & Electric Co. has a capacity of 11,000 horsepower. The connection, therefore, will make available 91,000 horsepower with continuous power lines extending from Bell and Levi, east of Charleston, to the Big Sandy valley in southeastern Kentucky.

Haines City's Rapid Progress.

The Chamber of Commerce, Haines City, Fla., has issued an exceedingly attractive and interesting folder concerning that city which it styles "Gateway to South Florida." Under the title "Haines City's Industrial Advantages" the numerous distinctive features of the place and its salient location are enlarged upon. "In 1920," it is stated, "eight citizens associated themselves under the leadership of Mr. Isaac Van Horn to make a reality of their faith and their vision of the future Haines City. Three years have worked wonders. . . . The next three years we feel will more than double the last three in improvements." During the last five years it is stated, the population has increased 500 per cent, assessed valuation 1000 per cent, retail trade over 1000 per cent, buildings in retail district 950 per cent, and so on. The folder is beautifully illustrated.

Semi-Annual Meeting of National Association of Cotton Manufacturers.

Secretary Harry C. Meserve of the National Association of Cotton Manufacturers, Boston, announces that the semi annual meeting of the association will be held at the Copley Plaza hotel, Boston, on April 30 and May 1. The general topic for discussion is "Cotton—And the Making of Industrial New England."

A number of prominent speakers are expected to address the convention, including Samuel M. Vauclain, president of the Baldwin Locomotive Works of Philadelphia.

Native Americans of Appalachian Region to Be Instructed in Building Trades.

Bluefield, W. Va., March 25.

Editor Manufacturers Record:

I have been a subscriber for your paper for several years. I have been in the cut stone business. I was the first to install a steam stone plant in Atlanta, Ga., and was there several years operating as the W. G. Sharkey Stone Co. The stone for many notable buildings of Atlanta were cut in my shop; most of it came from Stone Mountain, Georgia, and there were several different firms there working in perfect harmony, all parties being American.

This is the outstanding feature of this new venture. The mountain sections of the South are inhabited by people of the purest American blood we have left. They are the most neglected and the Mountain Industrial Institute of Grundy, Va., is one of the first institutions to undertake to teach them trades which carry the highest wages. The brick and stone mason and cutting trades have always paid most. Mostly foreigners are in these trades. They make so much trouble, strikes and turmoil that most good Americans prefer something else, at even less wages. They have been teaching woodwork in several schools throughout the United States for many years.

Josephus Hopwood is the president of this new institution. It is founded on good sound principles, the Christian religion. The aim is to turn out good, thorough and practical mechanics, honest workers, sober and trustworthy. It will be my aim to teach the boys to earn all the money that they are willing to accept from their employers; in other words, give value for all they receive. I will try to teach each boy individually and have them keep accurate cost account of all the work they turn out so when they are turned out journeymen they will have a good feeling for their employer and not one of antagonism and strife.

In Buchanan County, Virginia, is one of the largest undeveloped coal fields in the United States. It is coal of splendid quality and if the county gets a standard guage railroad it will develop into one of the richest counties in Virginia. The mountains are settled with the purest of whites; there is only one colored person in the county, an old ante bellum slave. There are no foreigners to teach discontent. They are good people; quick to learn and they have the best quality of native sand stone which is splendid building stone, suitable for any class of stone cutting and masonry. All of the new industrial institute buildings are to be erected of this stone.

The school owns several hundred acres of coal land. It is planting orchards on all available acreage and will have a vineyard, dairy, poultry and trucking farm. It will start with pure stock in all breeds, hogs and cattle and chickens, so that as they increase they will be able to improve the stock in the surrounding country.

The county is now building its first good roads. Three steam shovels are working at Grundy, the county seat, a place of about eight hundred inhabitants. They have three schools, six churches and two hotels; splendid water and delightful climate; no places of vice; splendid department stores; fine public buildings built of all cut stone; courthouse and jail built of native Raleigh sand stone. The quarry is close at hand; it has a forty foot face of good clear blue stone of fine texture and splendid working quality. The Levisa River and

Slate Creek run together at this point. There is fine mountain stream fishing and some day the place will be visited by people for pleasure. Good free stone water is available for drinking; mineral springs are yet undeveloped. Fruit grows to a good size and colors exceptionally well with fine flavor. Grapes grow to large sizes and fine flavor. The creek land is especially suitable for tomatoes and lettuce, beans, peanuts and potatoes; it is sandy and easy to cultivate.

After they get good graded roads and a standard guage railroad the people will be able to have commercial fertilizers, and with labor so plentiful, canning factories will thrive. Sheep raising would be practical and profitable now. Considerable timber has been cut but much of the land is still in Virgin forest oak, chestnut, and hickory. The Wm. Ritter Lumber Company's railroad reaches Grundy, which has been a blessing to the people, but the steep grades are not practical for the larger engines.

Grundy is the educational center of Southwest Virginia. Some of the leading school teachers in the state graduated there. The Industrial Institute has now two large brick buildings. Professor Remines, who is a thorough and practical Dean, has charge of the school. The school board of trustees is composed of leading men in Southwest Virginia and West Virginia, who are lending the best energy in making the school a success.

There is great demand for the American stone masons around the coal mines in West Virginia. As many as the school could turn out in twenty years could find ready employment. The wages prevailing now vary from one dollar per hour to one dollar and fifty cents per hour, and once these men get started they will be so far ahead of the foreigners that the school will be compelled to increase. They have the land and own all land around the institution so there can be no vice covered up.

I believe your sympathies are with us. I will always keep the MANUFACTURERS RECORD on file in the library so the students can have American ideals put before them. I expect to try to teach the boys the American plan for true American employers. I will try to keep out all Bolshevistic ideas and ruin by force of unjust demands for unearned pay. I will be here in Bluefield, W. Va., until April, then I will go to Grundy and start. Will use some of the students to prepare the next

W. G. SHARKEY, building stone.

Sub-Contractors on Building at Kansas City.

Kansas City, Mo.—Construction is under way on the new Oakland Building at 24th street and McGee Trafficway in this city, which is being erected for A. F. Seested, manager of the Kansas City Star. George E. Bowling & Sons of Kansas City have the contract on a percentage basis. The following subcontractors have been employed:

Cohen Building Material Co., cement and builders' tile; Humboldt Brick Co., common brick; Scannel Plumbing Co., plumbing; M. Snook, heating; Sowers-Taylor Co., millwork; J. Goldberg & Sons, structural steel; Kansas City Structural Steel Co., structural steel; Flint Faience Tile Co., floor tile; Montgomery Elevator & Service Co., elevator, all of Kansas City; also the Kansas City offices of the Pittsburgh Plate Glass Co. of Pittsburgh, Pa., for glass; Hydraulic Brick Co. of St. Louis for face brick, and Philip Carey Co. of Cincinnati for roofing.

JOHN NUVEEN & CO.

First National Bank Building

CHICAGO

We purchase SCHOOL, COUNTY and MUNICIPAL BONDS. Southern Municipal Bonds a Specialty.

Write us if you have bonds for sale

TEST SPECIAL RUBBER BELTING

Reduces your power transmission costs
Write for Belt Engineering Booklet

NEW YORK BELTING & PACKING CO.
NEW YORK-CHICAGO-PHILADELPHIA-PITTSBURGH-BOSTON-ST. LOUIS-SAN FRANCISCO

Whipping a tough one

Not a belt had survived this Lenix drive over thirteen months—many quit at nine.

They decided to give Goodrich "Commander" a trial, but, acting on experience, they followed their usual policy of purchasing another belt at the same time to be held for the emergency call.

Here's what happened: The "Commander" was installed and, according to the last reports, had run continuously for twenty-seven months and twelve days.

It is still on the job "whipping that drive," with another "Commander" waiting to take its place.

Let "Commander" deliver service like this to you.

The details of this drive are interesting:

Motor:
150 H. P.
Driving Pulley:
30 ins. diameter
500 R. P. M.
Driven Pulley:
72 ins. diameter.
Idler Pulley:
16 ins. diameter.
Center to center:
6 ft. 9 ins.
Between Pulley Faces:
2 ft. 6 ins.

The belt which did the work was an 18-inch, 6 ply "Commander" Belt 30 feet long, endless.

THE B. F. GOODRICH RUBBER CO.
Akron, Ohio

ESTABLISHED 1870

Goodrich
Commander
TRANSMISSION BELTS
"Best in the Long Run"



Fibroc Qualities



FIBROC is BAKELITE

FIBROC

Improves the Product

IN maintaining a rigid standard of dependability in every detail of their product, many leading manufacturers now use FIBROC to replace hard rubber, rawhide and fibre. Because of its mechanical strength, lightness, and unusual dielectric strength, FIBROC is used in a great variety of products. New, efficient and economical uses are being found for FIBROC in the industrial field.

The consulting services of the FIBROC engineering staff, backed by the facilities of our laboratories, are at your disposal to determine how you can use this material to advantage. Ask for further details.

NOW USED BY Manufacturers of

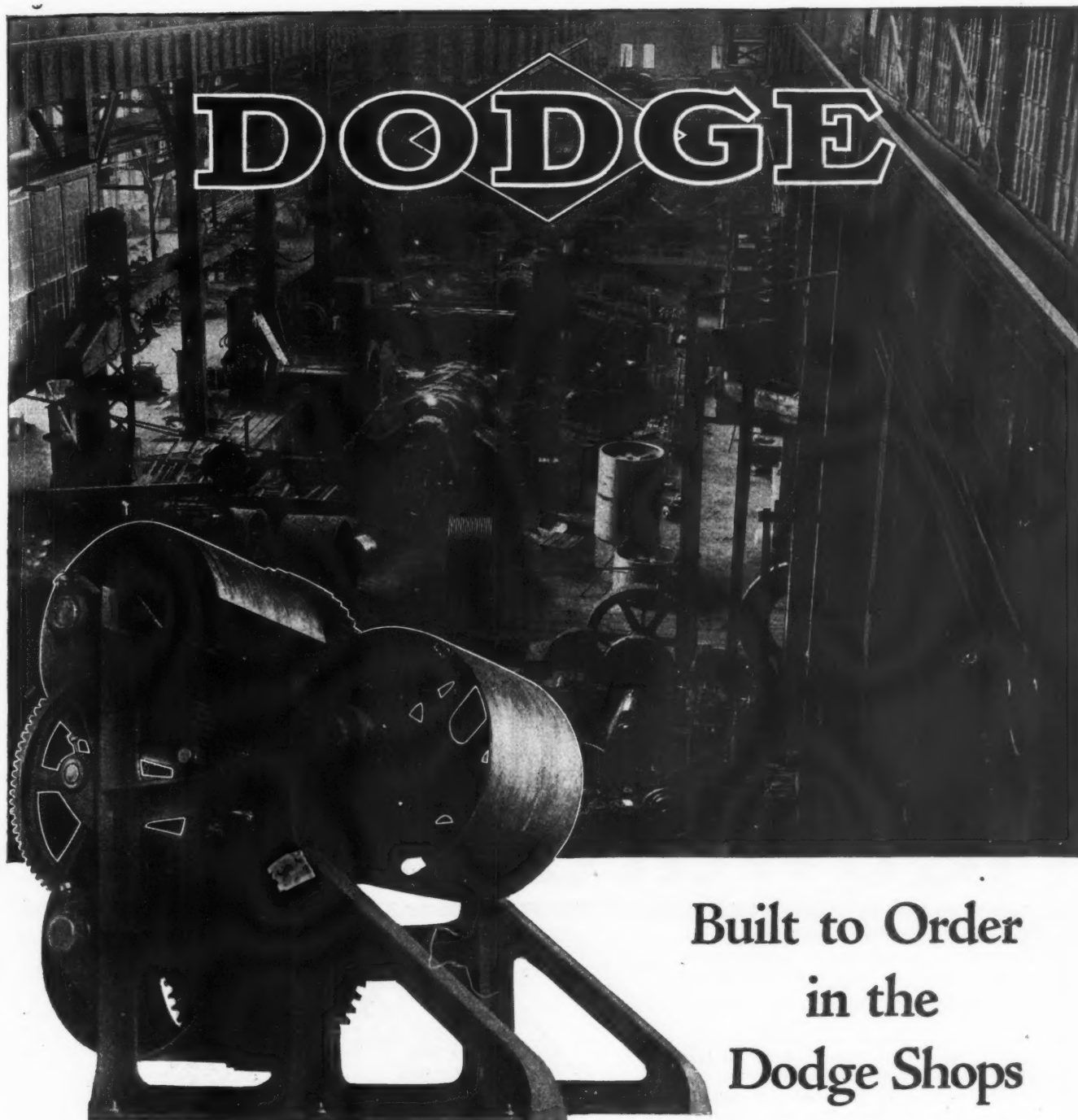
Automobiles (gears)
Conduits
Electric washers (gears)
Electric motors
Base mountings
Rail insulations
Phonographs (gears)
Violet-ray equipment
Silent gears
Switchboards
Starting and lighting units
Radio equipment
Automatic telephones
Valve discs
Vacuum cleaners
X-ray machines
Sugar-discharger tips

FIBROC INSULATION CO.

325 Lincoln Ave.
VALPARAISO, IND.

FIBROC

RODS
TUBES
SHEETS



Built to Order in the Dodge Shops

This head drive for belt conveyor is but one of the many and varied classes of specially designed equipment built to order in the Dodge Shops.

Complete piercing mills, rolling mill equipment, plate glass polishing tables, crushers, rope drives and other heavy machinery for all industries can be handled economically and with assurance of complete operating satisfaction.

Dodge facilities include a specialized engineering department—a large and well equipped wood and metal pattern shop—a foundry devoted exclusively

to the production of large castings and a machine shop equipped for machining as well as a large erecting and testing floor.

If you are now contracting for your foundry and machine work or if you are building heavy special equipment in your own shops, consider Dodge—it may mean substantial savings for you.

Send us your specifications or let us give you further information.

To the Executive Responsible for Production

When your production machinery fails remember the Dodge facilities for emergency service on special equipment of all kinds. Our extensive, trained organization can be depended upon to deliver your job on time, ready to erect and to be placed in operation with minimum delay.

DODGE MANUFACTURING CORPORATION

General Offices: Mishawaka, Indiana
Works: Mishawaka, Ind., and Oneida, N. Y.

EVERYTHING FOR THE MECHANICAL TRANSMISSION OF

Branches: New York Philadelphia Pittsburgh Boston Cincinnati Newark Chicago
Atlanta Minneapolis St. Louis Houston Seattle San Francisco

Power



High-Grade Investment Securities
Commercial Paper
Bankers' Acceptances

Hibernia Securities Co., Inc.

Hibernia Bank Bldg., New Orleans
New York Atlanta Dallas

Investment Bankers

are offered

Power and Light Securities

issued by companies with long records of substantial earnings.

We extend the facilities of our organization to those desiring detailed information or reports on any of the companies with which we are identified.

Electric Bond and Share Company

(Paid-up Capital and Surplus, \$50,000,000)

71 Broadway

New York

"A Good Picture of Your Plant"

R.J. Shutting
BIRD'S-EYE VIEW
ARTIST

Chattanooga

Tennessee

YOUNG & SELDEN COMPANY

MANUFACTURING

Bank and Commercial Stationers

BALTIMORE, MD.

Hayward Buckets

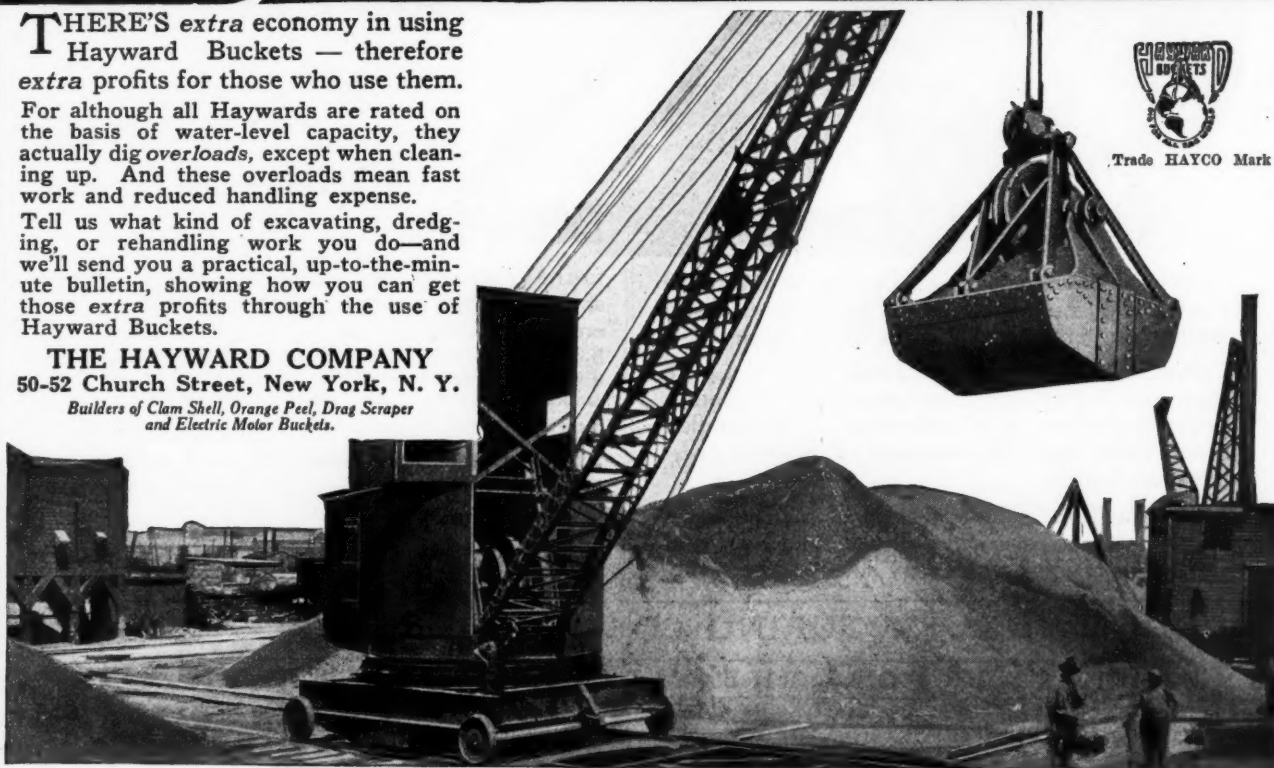
THERE'S extra economy in using Hayward Buckets — therefore extra profits for those who use them.

For although all Haywards are rated on the basis of water-level capacity, they actually dig *overloads*, except when cleaning up. And these overloads mean fast work and reduced handling expense.

Tell us what kind of excavating, dredging, or rehandling work you do—and we'll send you a practical, up-to-the-minute bulletin, showing how you can get those extra profits through the use of Hayward Buckets.

THE HAYWARD COMPANY
50-52 Church Street, New York, N. Y.

Builders of Clam Shell, Orange Peel, Drag Scraper
and Electric Motor Buckets.



2030-Y

THE BANK OF ALABAMA

ENSLEY, ALABAMA

R. A. TERRELL	President
J. W. MINOR	Vice-President
FOSTER HAMILTON	Cashier

We Solicit Your Business

MARINE BANK & TRUST COMPANY

New Orleans, Louisiana

Capital and Surplus - \$2,300,000.00

General Banking - Domestic and Foreign

Correspondence Invited

MARYLAND TRUST COMPANY

BALTIMORE

Transacts a General Trust and Banking Business

Correspondence and interviews invited

CAPITAL, \$1,000,000

Delaware Corporations
Forms, Law and Pointers
Estimates of Cost Furnished Without Cost
DELAWARE REGISTRATION TRUST CO.

100 West Tenth Street
Wilmington, Del.

J. Ernest Smith, President and General Counsel.
Chas. Warner Smith, Vice-President.
Harry W. Davis, Secretary and Treasurer.

REAL ESTATE MORTGAGE BONDS

We are interested in the purchase of first mortgage bond issues covering business property, hotels, apartment houses, etc., in amounts of \$50,000 and upwards. Entire issues city, county and district bonds purchased.

MARX AND CO.

Brown-Marx Bldg. Birmingham, Alabama

We Buy Bonds

City, County, School and Road, from Municipalities and Contractors

WRITE

THE PROVIDENT SAVINGS BANK & TRUST CO.
CINCINNATI OHIO**F. WM. KRAFT**

LAWYER

Specialist in Examination of

Municipal and Corporation Bonds

and Preparation of Proceedings relating thereto

517-520 Harris Trust Bldg.
111 West Monroe St. CHICAGO, ILL.**Municipal Bonds**

Inquiries invited from municipalities and contractors. We buy city, county, district, school, road, lighting, water works and other municipal issues.

A. C. ALLYN AND COMPANY

71 W. Monroe St., Chicago, Ill.

New York Milwaukee Minneapolis Boston

Does Your Banking Connection

meet all of your
business requirements?

Write us.

BALTIMORE COMMERCIAL BANK

GWYNN CROWTHER, President

Pratt Street and Market Place, Baltimore, Md.

Capital and Surplus \$1,000,000.00 Member Federal Reserve System

ENTIRE BOND ISSUES OF
SUCCESSFUL INDUSTRIALS PURCHASED

Offerings Invited

Resources - - - - - \$21,000,000

Established 1884

Mercantile Trust and Deposit Co.

OF BALTIMORE

A. H. S. POST, President. F. G. BOYCE, JR., Vice-President.

TODD & McCOLLOUGH

Members of

AMERICAN SOCIETY OF CERTIFIED PUBLIC ACCOUNTANTSAuditing, Cost and Accounting Systems,
and Federal Tax Service

No. 323 South Tryon St.

Charlotte, N. C.

BLACK & COMPANY

(WILMER BLACK, C. P. A.)

CERTIFIED PUBLIC ACCOUNTANTS

OFFICES:

Suite 1208 GARRETT BUILDING	BALTIMORE, MD.
6 HAMILTON ROW	HAGERSTOWN, MD.

WASHINGTON AND CHICAGO OFFICES

TRADEMARKS PATENTS COPYRIGHTS**LAWYERS ALBERT J. FIHE ENGINEERS**Former Member Examining Corps, U. S. Patent Office
111 WEST MONROE STREET
CHICAGO

Located in the World's Greatest Industrial Center

WE BUY MUNICIPAL BONDS

We are interested in the purchase of
Southern Municipals including road,
school, county, drainage and levee bonds.

M. W. ELKINS & CO.

Southern Trust Bldg. Little Rock, Ark.

The Country's Forest and Timber Supply Situation.

Extensive additions to national and other public forests, a large increase in Federal financial and administrative co-operation with the States in the protection of all forests from fire, and a revision of State taxation laws relating to the forests, are advocated in a report of the Senate Committee on Reforestation which has been submitted to the Senate by Senator McNary.

A review of the country's forest and timber supply situation with especial reference to conditions in the South is given in the following:

Out of a total of 921,000,000 acres of wooded land in the United States, there remain 131,000,000 acres of virgin forests, and 244,000,000 acres of cut-over land containing culled or second growth stumpage. Originally, states the Senate's Reforestation Committee's Report, the forest stand of the country was 5,200,000,000 board feet of merchantable timber. It has been reduced to about 1,600,000,000 feet of virgin forest and 600,000,000 feet of second growth timber.

The Southern pine region is now and has been since 1900 the dominant softwood lumber region of the country. Production reached its maximum with 17,000,000,000 feet in 1909, and the 1923 cut was about 30 per cent less. Southern pine generally dominates the Eastern markets, and the region produces nearly 10,000,000,000 feet of pine lumber more than it consumes. It is probable that in 15 or 20 years Southern pine will cease to be a factor of substantial importance in the national lumber trade. The South originally contained 650,000,000,000 board feet of pine timber, covering 130,000,000 acres. There are still 114,000,000 acres of pine land, containing 139,000,000,000 board feet of virgin timber and 119,000,000,000 feet of second growth. Because of forest fires the Southern pine belt contains 30,000,000 acres of denuded land.

An important Southern industry is that of naval stores, the perpetuation of which depends upon the restoration of the forests of pitch pine and the use of improved turpentine methods. Various conditions combine to give commercial reforestation in this region an exceptionally favorable status, though comparatively little has been undertaken.

The original Southern hardwood forests contained 339,000,000 acres. Much of this area was cleared as an incident of the expansion of agriculture. The area of forest land has now been reduced to 124,000,000 acres, of which about 18 per cent is virgin forests. The Federal Government owns 3,600,000 acres of forest land in this region, consisting partly of remnants of the public domain and partly of purchased areas. The remaining stand of hardwood timber is put at 388,000,000,000 feet almost equally divided between virgin and culled or second growth. The Central States region consumes almost 46 per cent of the national cut of saw timber. It produces only 40 per cent of its own lumber consumption, and pays an annual freight bill of \$120,000,000 on the balance. There has been little progress in reforestation.

Of the 469,000,000 acres in the United States which may be classed as forest or potential forest land, 89,000,000 acres are owned or controlled by the Federal Government, 8,700,000 acres by the several States, 400,000 by the cities, and 371,000,000 acres are in private ownership including 150,000,000 acres in farm wood lots. Commercial ownership is put at 221,000,000 acres. While public forests have been extended 10,000,000 acres during the last 11 years, 69,000,000 acres of virgin timber has been cut off. There are not more than 1,500,000 acres of planted growth in the United States. The greater part of the forest land will reproduce growths of timber if fires are kept out, but much of the 81,000,000 acres of barren land must be planted artificially.

Economic factors are beginning to prove a powerful stimulant to private reforestation. It is possible to bring up the yearly growth of wood in the United States to 63,500,000,000 feet, which it is estimated would be 10,500,000,000 feet in

excess of present consumption. The Committee declares there is no other region in the world to which the United States can look for the meeting of its forest products needs. The Southern States because of climatic conditions promoting quick growth and available suitable forest lands offer an exceptionally fertile field for reforestation work.

The report recommends extension of public forests in the watersheds of navigable streams, both for stream-flow protection and timber production, and removal of risks and handicaps from private timber growing as far as practicable. The principal form of private reforestation encouragement is found in the extension of Federal aid in the matter of forest protection from fire. If the hazard or loss from this source can be reduced to an insurable risk a large part of the forest problem will be solved. Of next importance is an adjustment of the methods of taxing forest lands so as to avoid an undue annual burden of taxation on forest lands and growing timber. Attention is directed to Senator McNary's bill, which seeks to meet the objectives by increasing current Federal aid appropriations from \$400,000 to \$2,700,000 a year, and otherwise meets with the requirements of the committee. A total Federal expenditure of \$3,000,000 annually is advocated for immediate action. Further additions to the national forests from the unreserved public domain and reservations, excepting Indian reservations, national parks and national monuments are recommended.

Weekly Report on Southern Pine.

The Southern Pine Association for the week ended March 21 reports as follows on 139 mills:

	Cars.	Feet.
Orders on hand beginning of week	12,488	258,314,280
Orders received during week	3,318	68,632,830
Total	15,806	326,947,110
Shipments during week	3,207	66,336,795
Orders on hand end of week	12,599	260,610,315

Production for the week was 76,573,646 feet. Shipments were 10,236,851 feet below production or 13.37 per cent. Orders were 7,940,816 feet or 10.37 per cent below production. Orders were 2,296,035 feet or 3.46 per cent above shipments. The week was 8,981,714 feet or 10.50 per cent below normal production. The decrease in orders on hand during the week amounted to 2,296,035 feet or .89 per cent.

Increased Production of Motor-Driven Cultivators.

Dunbar, W. Va., March 29—[Special.]—The Graveley Motor Plow & Cultivator Co. capitalized at \$250,000, one of the town's new industries, is ready to begin quantity production. Orders have been placed for material to build 1000 machines, in addition to 500 machines upon which work is progressing.

The product of the company is a motor-driven cultivator for small farms and truck gardens, invented by B. F. Gravely, its president.

Sam Fordyce to Rio Grande City.

Application has been made to the Interstate Commerce Commission for permission to build the Rio Grande City Railway Company's proposed line from Sam Fordyce to Rio Grande City, Tex., 22 miles, headquarters of the company being at San Antonio, Tex. Albert Steves, Franz C. Groos, John B. Carrington, and others of San Antonio are the incorporators and directors.

New Coal Company to Develop 515 Acres.

Charleston, W. Va., March 28—[Special.]—The Thomas & Wilson Coal Co. has organized to develop about 515 acres of coal land on the west side of Cabin Creek in Cabin Creek district of Kanawha county, having leased for 20 years the acreage from the Ohley Coal Co. John Oldroyd, of Upshur, W. Va., is president of the new company.

Weaving Company to Begin Operations Soon.

Greenville, S. C.—Details for the organization of the Southern Weaving Co., with a capital stock of \$120,000, are being worked out by J. W. Burnett, of Greenville, and associates. It is understood that the new company will begin operations at an early date in the plant at City View formerly occupied by the Shambow Shuttle Co., which contains 20,000 square feet of floor space.

The plant, it is said, will produce about 6500 pounds of cotton specialties weekly, running on a night and day basis of 55 hours per week. Officers have not been selected for the company, but it is thought that Ben E. Geer, of Greenville, will be the president. Mr. Burnett and F. D. Murdock will have charge of the business upon the opening of the plant.

Zoning Act for Charleston, S. C.

The South Carolina Legislature recently passed a zoning enabling act, which was actively sponsored by the Charleston Chamber of Commerce, and the act has already received the signature of Governor McLeod. The Chamber of Commerce will now appoint a committee to study the local situation and recommend to the city council a practical and adequate ordinance, so that the future industrial growth of Charleston, the protection of homes from damage and the increase in value of business property may be intelligently controlled by the city itself.

The British steamer Goldenway has cleared from Pensacola, Fla., with a cargo of 1,861,059 feet of Southern yellow pine lumber for Bahia Blanca, Argentina.



PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close April 30, 1924.

U. S. Engineer Office, Jacksonville, Fla.—Sealed proposals for constructing one steel barge 80 ft. x 26 ft. x 6 ft. for the dredge BARNARD will be received here until 12 M., April 30, 1924, and then opened. Further information on application.

Bids close April 24, 1924.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., March 25, 1924.—SEALED PROPOSALS will be opened in this office at 3 P. M., April 24, 1924, for remodeling the electric passenger elevator in the U. S. Marine Hospital at Savannah, Ga. Drawings and specifications may be obtained at this office in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

Bids close April 22, 1924.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., March 20, 1924.—SEALED PROPOSALS will be opened in this office at 3 P. M., April 22, 1924, for the construction, including mechanical equipment of a two story, hollow tile and stucco, non-fireproof Post Office Building, approximately 45 by 67 feet in size, at Water Valley, Miss. Drawings and specifications may be obtained from the Custodian of the site at Water Valley, Miss., or at this office in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

Bids close April 30, 1924.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., March 31, 1924.—SEALED PROPOSALS will be opened in this office at 3 P. M., April 30, 1924, for the construction, including mechanical equipment, of a one-story brick and tile non-fireproof Post Office building (approximately 62 by 64 feet), at Thomasville, N. C. Drawings and specifications may be obtained from the Custodian of the site at Thomasville, N. C., or at this office in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

Bids close May 12, 1924.

Treasury Department, Bureau of Engraving and Printing, Washington, D. C., April 2, 1924. Sealed proposals are invited to furnish this bureau with Postage Stamp Paper and Internal Revenue Paper, Brass and Iron Castings, Cleaning of Windows, Purchase of Pulp, Ink Scrapings, Distinctive Paper Shredded Trimmings and Postage Stamp and Internal Revenue Paper Trimmings, during the fiscal year beginning July 1, 1924. Proposals to be received not later than 2 P. M., Monday, May 12, 1924. Blank forms with specifications for proposals for the several schedules and further information will be furnished on application to Paul E. Twyman, Assistant Director.

RATE: 35 cents per line per insertion.
PUBLICATION DAY: Thursday.
FORMS CLOSE 4 P. M., Monday.
DAY LETTER: When too late to send copy by mail to reach us by 4 P. M. Monday, forward by day letter.

THE DAILY BULLETIN OF THE MANUFACTURERS RECORD: Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest. The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements. The same rate applies—35 cents per line per insertion.

Bids close April 7, 1924.

PROPOSALS FOR OIL BURNING STEAMBOAT FURNACE INSTALLATIONS—Office Mississippi River Commission, 1st and 2nd Districts, Room 1006 McCall Bldg., Memphis, Tenn.—Sealed proposals will be received here until 11 a.m., April 7, 1924, and then opened, for furnishing and delivering oil-burning furnace installations, complete. Information on application.

Bids close April 18, 1924.

Road Construction

OFFICE OF THE STATE ROAD DEPARTMENT.

Tallahassee, Fla., March 22, 1924. Sealed proposals will be received at this office until 12 o'clock noon on the 18th day of April 1924 for the construction of the following section of Road.

Project No.	Road No.	County	Length
44 (F. A.)	2	Lake	10.529

Work to consist of clearing and grubbing, grading, drainage structures and Hard surfacing (Plain or reinforced cement concrete, asphaltic concrete, sheet asphalt on either concrete or rock base, vitrified brick and bituminous macadam or rock base.) All black top pavements to be with or without flush curb.

All work to be done in accordance with plans and Specifications of the State Road Department.

A certified check or bidder's bond made payable to the Chairman of the State Road Department in the sum of (5%) per cent of the amount bid, must accompany each proposal.

Plans may be examined at this office or at the offices of the Division Engineers, or may be obtained upon application to this office for the sum of \$5.00 each, which amount will be refunded if plans are returned in good condition by a Bona Fide bidder within 10 days after bids have been received.

The right is reserved to reject any or all bids.

H. B. PHILIPS,
Chairman.

J. L. CRESAP,
State Highway Engineer.

Bids close April 22, 1924.

U. S. Engineer Office, Florence, Alabama. SEALED PROPOSALS will be received here until 11 A. M., April 22, 1924, and then opened, for furnishing and erecting 58 structural steel regulating gates for Wilson Dam, Tennessee River, near Florence, Alabama. Further information on application.

Bids close April 15, 1924.

Street Paving

Greer, S. C. Sealed bids will be received by Greer, South Carolina, at two o'clock P. M., April 15th, for the paving of certain streets with Asphalt or Concrete, amounting to 17,000 square yards of pavement, the necessary storm sewers, curb and gutter and grading. Bidders' check of \$1000 required. Specifications will be forwarded upon request from City Clerk or Engineer.

B. A. BENNETT, Mayor.
L. L. WHITE, Clerk.
HARWOOD BEEBE, Engineer.
Spartanburg, S. C.

Bids close April 17, 1924.

Paving

Gallatin, Tenn. Sealed bids for Paving at Gallatin, Tennessee, will be received by the Mayor and Board of Aldermen at the office of the Recorder until 2.30 P. M. April 17, 1924, at which time they will be publicly opened and read.

The work consists of resurfacing the existing macadam pavement for a foundation and then surfacing this foundation with an asphaltic pavement; alternate bids will be received on Kentucky Rock Asphalt, Asphaltic Concrete (Topeka), Bituminous Macadam (Penetration Method); only one type will be adopted for all the work.

Approximate quantities. 44,000 sq. yds. surface; 7800 tons broken stone, rolled in place.

Plans and specifications may be examined at the office of the Recorder at Gallatin, or at the office of the Engineer, or a copy may be obtained from the Engineer upon receipt of a deposit of \$10.00, of which amount \$5.00 will be refunded when the plans and specifications are returned in good condition. If additional information is required, address the Engineer.

The right is reserved to reject any or all bids and to waive informalities.

Each bid must be accompanied by a certified check drawn on a responsible bank or trust company, and made payable to E. E. Person, Recorder, for a sum not less than 5% of the bid; or a bidder's bond for the same amount by a surety company authorized to do business in the State of Tennessee will be accepted. The successful bidder will be required to furnish a performance bond in the sum of 50% of the contract price.

The Contractor will be paid monthly on the basis of 90% of the value of the work done and materials furnished.

E. E. PERSON, Recorder.
B. H. KLYCE, Engineer,
506 Fourth & First National Bank Bldg.,
Nashville, Tenn.

Paving

Taylorsville, N. C.
Sealed proposals will be received until 2:00 P. M. o'clock April 8th, 1924, at the office of the Mayor at Taylorsville, North Carolina, for the construction of concrete, asphalt or bitulithic pavements to the amount of approximately 16,000 yards. The right is reserved to reject any or all bids.

Plans and specifications may be obtained from the Engineers.

C. C. MUNDAY, Town Clerk.
The Carolina Engineering Company, Engineers, Wilmington, North Carolina.

Bids close April 24, 1924.

Concrete Pavement

Little Rock, Ark.
The Arkansas State Highway Department will receive bids on 43 miles of 18 foot concrete pavement in the Little Rock-Hot Springs Highway Improvement District on April 24th. For detail information in regard to this work communicate with the State Highway Department, Little Rock, Arkansas.

(Signed) R. C. LIMERICK,
State Highway Engineer.

Bids close April 21, 1924.

Municipal Auditorium

Bartow, Fla.
Sealed bids will be received by the City Commissioners of the City of Bartow, Florida, at the City Manager's Office in the City Hall at Bartow, Florida, until two o'clock P. M. April 21st, 1924, for the erection of a Municipal Auditorium at Bartow, Florida, (except electric wiring, heating and ventilating) according to plans and specifications prepared by W. B. & W. D. Talley, Architects, Lakeland, Florida. Each bid to be accompanied by a certified check for \$1,000.00, made payable to W. H. Bradley, City Clerk, as an evidence of good faith and as a guarantee that the successful bidder will enter into a contract and execute a satisfactory Surety Bond in the sum of \$30,000.00.

Plans and specifications are on file and may be examined at the City Manager's Office and may be secured from the Architects upon a deposit of \$25.00, said deposit to be returned if plans and specifications are returned on or before date of opening bids.

The Commission reserves the right to reject any or all bids.

R. B. HUFFAKER,
Mayor Commissioner.
Attest,
W. H. BRADLEY,
City Auditor and Clerk.

Bids close April 29, 1924.

Power Plant Improvement

Farmville, N. C.
Sealed proposals will be received by the Mayor and Commissioners of the Town of Farmville, N. C., until 2:00 P. M., April 29th, 1924, for furnishing equipment for and constructing improvements to the Municipal Power and Lighting Plant.

The project consists of the construction of an addition to the present building to house the new equipment; the construction of a reinforced concrete spray pond with piping and spray equipment for cooling condensing water; the construction of concrete foundations for mechanical and electrical equipment; the furnishing and erection of a 250 K. W. Unaflo Engine-Generator Unit; the furnishing of a generator and two feeder panels; the furnishing of a surface condenser, vacuum and circulating pump; valves, piping, separators, etc.

Proposals must be marked "PROPOSALS FOR POWER PLANT IMPROVEMENTS." All bids must be made upon blank forms provided in copies of the Proposal, Contract and Specifications.

Each bid must be accompanied by a certified check in the amount of five (5) per cent of the amount of the bid, but in no case for less than Two Hundred Fifty (\$250) Dollars, as evidence of good faith. Copies of the Specifications, Form of Proposal, Contract, etc., may be obtained upon application to the Engineer.

The right is reserved to reject any or all bids or to award contracts which, in the opinion of the Engineer and the Board appear for the best interests of the Town.

M. V. HORTON, Mayor.
W. A. McADAMS, Superintendent.
WILLIAM C. OLSEN,
Consulting Engineer, Raleigh, N. C.

Bids close April 9, 1924.

Water Meters

Houma, La.
Sealed Bids will be received by the City of Houma, La., on Water Meters, up to April 9th 1924, 12 o'clock Noon, as follows:

250 to 500, 5/8 Meters with 3/4 Connection,
15 to 50 1 inch Meters with 1 inch Connection.

Meters shall conform to the Standard Specifications for Cold Water Meters, Disc Type, adopted by the American and New England Water Works Association.

All bids should be addressed to Dreux Angers, City Clerk, Houma, La.

Water Works Material

Malden, Mo.
Bids invited separately for material as listed: 100,000 gallon tank on 100 foot tower or 1500 feet 8 inch mains with 2200 feet 6 inch mains and 1000 feet 4 inch mains, 12 standard fire hydrants and 9 two inch inside hydrants. Tank not wanted if the 8 inch mains are used to connect with city.

MALDEN COMPRESS CO.

Bids close April 9, 1924.

Pumps and Cast-Iron Pipe

DEPARTMENT OF PUBLIC IMPROVEMENTS.
SUB-DEPARTMENT OF HIGHWAYS
ENGINEER.

Baltimore, Maryland, March 26th, 1924.
Sealed bids or proposals, in duplicate, addressed to the Board of Awards for installing Motor-Operated Pumps and Cast-Iron Piping in Pumping Station No. 1 at the Baltimore Sewage Treatment works, will be received at the office of the City Register, City Hall, Baltimore, Md., until 11:00 A. M., Wednesday, April 9th, 1924, at which time and place they will be publicly opened by the Board of Awards and read.

Plans and specifications may be obtained at the office of the Highways Engineer, Room 10, City Hall, Baltimore, Md. A charge of \$5.00 will be made for each set of plans and specifications, which amount will be refunded if the plans are returned in case a bid is submitted or the plans and specifications are returned in case no bid is submitted, to the office of the Highways Engineer, in good condition before 11:00 o'clock A. M. on the date set for opening bids.

Bond in the amount of the contract price will be required of the successful bidder.

The Board of Awards reserves the right to reject any and all bids.

Certified check of the bidder on a clearing-house bank, made payable to the Mayor and City Council of Baltimore in the amount of Three Hundred Dollars (\$300.00) must accompany each bid.

BERNARD L. CROZIER,
Highways Engineer,
STEWART PURCELL,
Chief Engineer.

Approved:
HOWARD BRYANT,
Acting President Board of Awards.
Approved:
GEORGE E. KIEFFNER,
Assistant City Solicitor.

**CLASSIFIED OPPORTUNITIES****MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES**

CLAIMS AND MINES of Gold, Silver, Lead, Copper, Tungsten, Molybdenum, Vanadium, Titanium, Chromium, Iron, Manganese, Mica, Mercury, Asbestos, Kaolin, etc. A. H. Blinberry, Box 827, El Paso, Tex.

BRICK-TILE CLAY.

Deposit Brick Tile Clay on Ry. near Atlanta, Ga. Also Granite. W. L. English, Americus, Ga.

CLAY FOR SALE—200 acres. Good vein fire and brick clay. Plenty coal and timber. can be handled by gravity. Close to railroad. Box 52, Barrs Mills, Ohio.

COAL LANDS AND MINES

COAL MINE BARGAIN, IMMEDIATE SALE—Located on Louisville and Nashville and Southern Ry., non-union territory, lease 500 acres—38-in. Jellico seam, capacity 400 tons daily, now operating fully equipped, miners houses, commissary, etc., \$22,500 liberal terms if desired. Dr. E. Guynes, 513 Walnut Street, Knoxville, Tenn.

FOR SALE: 12,000 acres coal, northern West Virginia, Pittsburgh and Redstone seams, 7 to 8 feet thick, superior quality; operating mines or undeveloped tracts. Taney Harrison, Clarksburg, W. Va.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost, allow seven words of ordinary length to a line. When the advertisement contains a number of long words, proper allowance should be made. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisement accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c. per line; 300 lines, 26c. per line; 500 lines or more, 25c. per line.

COAL LANDS AND MINES

GRAB THIS BARGAIN: 1000 acres semi-anthracite coal land in fee, near railroad, western Arkansas. Only \$20 per acre. Philip Muller, Jr., Dushore, Pa.

CUMBERLAND COUNTY, TENNESSEE: to close estate; Titles good; 16,000 acres high grade Coking Coal 10 ft. thick also 1200 acres operating mine. E. H. Benoit, 1002 Title Guaranty Bldg., St. Louis, Mo.

TIMBER AND TIMBER LAND

FOR SALE 6000 ACRES LAND: With 24 million feet of timber consisting of pine, gum and maple. Will sell timber without the land or will sell timber and land. T. J. Sugg, Washington, N. C.

FOR SALE—22 SECTIONS OF TIMBER in British Columbia.

G. M. SCHOEMANN,
5537 Waterman, St. Louis, Mo.

FARM, FRUIT, AND TRUCK LANDS**FLORIDA**

FLORIDA—Playground of the Rich; Paradise of the poor. The fastest developing State in the Union, and Roger Babson, the great business statistician, says that TAMPA is destined to be the greatest city in the Southeast. Come and be one of us. We have a Home, Grove or Farm for you. Send today for booklet. "Largest Orange Tree in the World," and list. Tampa-West Coast Realty Co., (Inc.), Opp. Post Office, "Since before the war." Tampa, Fla.

FOR SALE

Six thousand acres of land, good for fruit and farming, also fine satsuma orange land, high, well drained, over two hundred feet above sea level; fine lakes and good fishing and hunting, will take \$12.50 per acre, other land in same vicinity has been selling as high as \$200.00 per acre, this is a good purchase will net any purchaser 8 per cent annually on his investment. Apply to G. M. Thomas, Marianna, Fla.

FARM, FRUIT, AND TRUCK LANDS

FLORIDA

FLORIDA—Of all the investments in the United States today, the safest and most profitable, everything considered, is a well managed orange, grape fruit, or avocado grove in Florida. The profits from an investment will enable you to spend your winters in Florida. For full information write The Bear Island Fruit Grove Co., Oakland, Orange County, Florida.

VIRGINIA

FARMS TO FIT—Mild climate. Nearby markets. Easy terms. Booklet free. 165a \$15,000. Splendid buildings, easily worth \$25,000. Ponton, The Farm Tailor, Box 343, Bedford, Va.

BUSINESS OPPORTUNITIES

FOR SALE nice home, 600 acre farm and hydro-electric plant with a twenty-year contract with the City of Marianna for light and power. Plant pays ten thousand dollars a year; also good fishing and hunting as there is in the State, fine sport. An ideal place for anybody to live. Six miles South of City of Marianna. Want to sell quick. Wire or write or come to
G. M. Thomas, Marianna, Fla.

WANTED CAPITAL to develop townsite, own 640 acres that two railroads cross on, in S. E. Okla., surrounded by coal, oil, gas and rich farming. Particulars to interested parties only. Write J. E. Cavanagh, McAlester, Okla.

FOR SALE FISHING RIGHT. The best in the State. Lake covers two thousand acres of land. Will sell exclusive right and I will look after same. Fine hunting also. Will give deed, good title. A great place for sport.
G. M. Thomas, Marianna, Fla.

SUBSTANTIAL MANUFACTURING COMPANY wants capable man to open office and manage salesmen. \$500 to \$1500 necessary. Possibilities unlimited. Atlantic Coast Mfg. Co., McKevitt Bldg., Norfolk, Va.

FILTER SAND USERS.—We are offering for filter purposes, 98½% silica sand, effective size .45 millimeters, uniformity coefficient 1.6. Sample sent on request.
EVANS SAND CO., ELLIOTT, S. C.

ADVERTISER WISHES to get in touch with the owners of a modern woodworking plant, with a view to securing an interest in the business. Experienced and practical. Thorough knowledge of Interior Woodwork, Store Fixtures, and Special Cabinet work. Southern State, particularly Florida, preferred. Address No. 6303, care Manufacturers Record, Baltimore, Md.

PATENT FOR SALE—Outright or on royalty basis, on Two Row Kafir Corn Harvestor, issued 1923. H. G. Biehler, 1032 W. William St., Decatur, Ill.

WANTED: To correspond with some concern or individual interested in developing agricultural or Citrus projects in the South. Have technical agricultural training, years of experience in agricultural practice and business. Would be willing to invest some capital and give my entire time to the right kind of proposition. References exchanged. Address No. 6301 care Manufacturers Record, Baltimore, Md.

WOULD LIKE TO INTEREST CAPITAL to develop some small manufacturing plans. Address No. 6305 care Manufacturers Record, Baltimore, Md.

CAPITAL WANTED for development of mica and manganese ore lands in Cartersville district and in Lumpkin County, Ga. Have about 2000 acres. Wish to organize company of one or two hundred thousand dollars. Edward Doty, Huntsville, Ala.

RICHMOND, VA.—Right in business section, 4 story warehouse, extra heavy construction; 80,000 square feet space. 101x200 feet, trackage on 100-ft. front, loading space 28 feet wide on side 200 feet, also, wide alley in rear; very light, open on three sides. Will sell, or rent for a term. We also offer for sale sites for warehouses or factories, with or without trackage. Convenient car service for labor.
Richmond Trust Co., Richmond, Va.

BUSINESS OPPORTUNITIES

I SPECIALIZE in industrial, warehouse and business sites at and adjacent to Washington, D. C.

M. B. HARLOW
Harlow Building, Alexandria, Va. Colorado Building, Washington, D. C.

WE BELIEVE IN REAL ESTATE MEN.

If you can't sell what you have try what we have and give us a chance at your property. The 48 states cannot offer what we offer, but still it may not suit and it is your business and my business to suit the customer. O. W. Crawford, discoverer of the booming new Town of Schriever, La.

MILLWRIGHT WORK WANTED

WANTED: Millwright work by day or contract; 20 years experience erecting dams, water wheels and general mill machinery. J. H. Boyd, Chester, Va.

FACTORY SITES

AN IDEAL FACTORY SITE—Healthful location, cheap, continuous hydro-electric power. Some hard woods, including walnut. Write stating kind of enterprise and possible power wanted at once to B. R. BROWN, Heber Springs, Ark.

INDUSTRIES WANTED

SMALL FACTORY can do well at Gobles Mich., low rent for workers. Power, light, water, free site, etc. Lock Box 412, Gobles, Mich.

INMAN, S. C., wants industries, large and small. Good climate, good labor conditions, electric power, water. Will offer inducements to assist in location of good industries. Write Secretary Chamber of Commerce.

SPECIAL INDUCEMENT offers small factories located in Van Wert, Ohio, plenty of labor, lowest tax rate, best transportation. Address Chamber of Commerce, Van Wert, Ohio.

PILOT MOUNTAIN, N. C. wants industries. Good climate and labor conditions, several hundred electric horsepower for sale 1c per KW. Hr. owned by town. Will offer inducement to assist in location of industries. Write Chamber of Commerce.

THE NEW TOWN OF SCHRIEVER, LA., has gas; it may have oil. The heart of Louisiana's sugar country, Schriever is 75 years old and never a lot was sold until January 4, 1924. The Schriever Industry Bulletin, free for three months, graphically gives its history. With three railroads and in a circle of thirty miles are eight county seat towns and more than 100,000 prosperous people. The Twin Bayous, the famous Terrebonne and Lafourche, are Industrial Canals Providence made. The climate, salubrious and healthful, is guaranteed. The rich plantations of which Schriever is the center are now being subdivided into cheap little farmsteads. We offer small factories that no other place in the 48 states can possibly offer. Write the Schriever Association of Industries, Schriever, La.

INDUSTRIAL PLANTS

BRICK MANUFACTURING PLANT.
For sale or lease. Low price and easy terms.
U. H. Davenport, Athens, Ga.

FOR SALE—One complete Brick and Tile Plant two miles from Moultrie, Georgia, with 123 acres of land on Georgia and Florida Railroad. Will sell for cash or on terms. MOULTRIE BANKING COMPANY.

If interested in buying
A SOUTHERN COTTON MILL
Write to
F. C. ABBOTT & COMPANY
Charlotte, N. C.
26 years' experience in Southern Mill Stocks

PLANT FOR SALE: Modern concrete and brick one story building with fifteen thousand feet floor space and about acre and half of land in Alexandria on Richmond-Washington State Highway and on R. F. & P. R. R. near Potomac Yards with its many Northern and Southern railroad connections. Graham & Ogden, Alexandria, Va.

PATENT ATTORNEYS

PATENTS—Booklet free. Highest references. Best results. Promptness assured. Watson E. Coleman, Patent Lawyer, 644 G St., N. W., Washington, D. C.

PATENT-SENSE—As one of the oldest patent firms in America we give inventors at lowest consistent charge, a service noted for results, evidenced by many well-known Patents of extraordinary value. Book, Patent-Sense, free. Lacy & Lacey, 735 F St., Washington, D. C., Estab. 1869.

PATENTS-TRADEMARKS-COPYRIGHTS. WRITE for our free Guide Books and "RECORD OF INVENTION BLANK" before disclosing inventions. Send model or sketch and description of your invention for our free prompt opinion of its patentable nature. Highest references. Reasonable terms. VICTOR J. EVANS & CO., 712 Ninth St., Washington, D. C.

INVENTORS—Send sketch or model of your invention, for opinion concerning patentable nature, and exact cost of applying for patent. Book, "How to Obtain a Patent" sent free. Gives information on patent procedure and tells what every inventor should know. Established 25 years. Chand-lee & Chandlee, 412 7th St., N. W., Washington, D. C.

AGENCIES WANTED

SOUTHERN SALES AGENCY WANTED. High grade Sales Manager and Mechanical Engineer with long executive experience on Sales, Credits, Collections wishes to manage Branch office or represent Manufacturer in this section. Box 1163, Charlotte, N. C.

WANTED to take on new lines or articles of real merit to sell in South Carolina. Agricultural implements, automobile equipment or household appliances preferred. Established in 1876. Address No. 6310, care Manufacturers Record, Baltimore, Md.

SITUATIONS WANTED

WANTED: Position with cement builders and contractors or manufacturers, experienced superintendent. Address O. K. Nelson, North Tazewell, Virginia.

COTTON MILL SUPERINTENDENT possessing executive ability wants permanent southern connections where he will have opportunity to prove his worth. No. 6304 care Manufacturers Record.

POSITION WANTED, by high class experienced cement chemist. Twenty years successful experience in dry and wet process operation. Has executive ability and familiar with all details operation, investigation of new properties and their commercial values. Highest references. Address No. 6308 care Manufacturers Record.

WANTED—Position as Traveling Salesman with a reliable Machinery and Mill Supply House, to sell direct to lumber mills and wood-working plants in North and South Carolina. I know the business and can furnish the best of reference. Chas. H. Hall, New Bern, N. C.

A CAPABLE experienced business man would like a management connection of building material and light hardware store, small mattress factory or small wholesale and retail produce business. Address No. 6306 care Manufacturers Record.

SECRETARY - MANAGER CHAMBER COMMERCE OR COUNTY TRADE BOARD, experienced in exploitation and general development work in Western and Southern states now employed, desires similar connections in progressive city between 6000 and 20,000. Address No. 6307 care Manufacturers Record, Baltimore, Md.

MEN WANTED

BROAD GAUGE high grade man about 35 as Secretary-Treasurer, large road building business Southeastern States. Must be able to meet Bankers, State, City Officials. Prefer engineering education. Life position. Good salary. Must invest \$10,000 in business. Address Willite Southeast Co., Atlanta, Ga.

WANTED—A competent foreman or superintendent with wide experience in handling all kinds building construction; good salary and bonus. Spangler Construction Co., Tampa, Fla.

MEN WANTED

SALES AGENTS WANTED:

We are in need of reliable Sales Agents, to represent us in the sales of our High Temperature Furnace Cements and our Ramite, Plastic Monolithic Furnace Lining Material in southern cities. Prefer long established Sales Agents, calling upon Power and Industrial Plants selling boiler room supplies and equipment. Address all communications to the S. Obermayer Company, 2563 West 18th St., Chicago, Ill.

ESTIMATOR: Construction company doing general building construction requires the services of an experienced estimator. Must be sober, industrious and able to furnish good references. Some experience in drafting. Good future for right man. Headquarters in North Carolina. Submit detailed experience, references and salary expected with first letter. Communications confidential. Address No. 6302 care Manufacturers Record, Baltimore, Md.

SALESMAN—High grade salesman with mechanical training to sell Davenport Heavy-duty Oil Engines to dealers and industrial plants. Opportunity to earn big commissions. Full time and side line men wanted. Write Dept. 309, Davenport Mfg. Co., Inc., Davenport, Iowa.

WANTED, by wholesale lumber firm, with well established business, a Pine and Hardwood salesman of proven ability, either on straight salary or salary and commission basis. Territory, Piedmont section, North Carolina and Virginia. Address Box 1232, Columbia, S. C.

MEN WANTED

WANTED: Secretary for Chamber of Commerce. Salary \$2400.00 to \$3000.00. Must be experienced man familiar with conditions in the South. Applicant must give age, experience, education, and references. Address President, Chester Chamber of Commerce, Chester, S. C.

WANTED—LIVE WIRE
FACTORY MANAGER

One who has had at least five years successful experience in handling production and in stabilizing costs. Preferably one who has had experience in the electric storage battery field.

No applicant can be considered unless he gives detailed experience, salary expected and references. Fine opportunity for man who can qualify. No. 6311, care Manufacturers Record, Baltimore, Md.

SALARIED POSITIONS \$2500 to \$25,000 upward; executive, technical, administrative, engineering, manufacturing, professional, managing, financial, etc., all lines. If you are qualified and receptive to tentative offers for a new connection you are invited to communicate in strict confidence with the undersigned who will conduct preliminary negotiations for such positions. A method is provided through which you may receive overtures in confidence, without jeopardizing present connections, and in a manner conforming strictly to professional ethics. Send name and address only; preliminary particulars will be sent without obligating or compromising you in any way. R. W. Bixby, Inc., 403 Lockwood Building, Buffalo, N. Y.

MEN WANTED

REPRESENTATIVES WANTED

For Baltimore, Charleston and Atlanta to handle a full line of steam and centrifugal pumps, Standard equipment. Established over 40 years. State age, experience, and references. Exclusive territory granted. Address Room 322E, 30 Church St., New York.

MACHINERY AND SUPPLIES

FOR SALE at sacrifice 25 KW generator 125 volts direct current, with 9x10 Ball automatic engine, also 2-9 in. Westinghouse air pumps, 2-5 in. discharge Pulsometer pumps, 3000 ft. 4 in. pipe, Box 631, Knoxville, Tenn.

10 DORSEY SKIDDERS For Sale—Practically new, used 6 weeks, overhauled and in perfect condition. Used in a large clearing contract, work on which has been held up. Tallassee Motor Co., Tallassee, Ala.

FOR SALE—Rift gang edger Wilkins Challoner; Clark saw mill carriage 52" opening; steam set works; steam nigger; Loader and jump saw trimmer; 250 HP automatic compound steam engine; Locomotive crane Industrial 4 wheel 30' boom; 5x16" counter shaft and pulleys 84" 42" and 62" diameter; Miscellaneous shafting pulleys, live rolls and equipment; Duplex two stage Bury air compressor 950 Cu. Ft. capacity; Carload 1/2x4" flat iron; Carload 1/2x12" Galv square spikes. Large assortment wooden blocks. Maritime Industries Co., Brunswick, Ga.



SPECIAL ADVERTISEMENTS OF GENERAL INTEREST



OPPORTUNITY

Winston-Salem, N. C. is the most important manufacturing city South of Baltimore. Blessed with a climate and public spirit, second to none. Many opportunities in this Piedmont Section await you. If you would make a change, write the Winston-Salem Real Estate Board for full information, gladly furnished.

E. E. James, President J. S. Kuykendall, Ex., Sec'y.

AHOSKIE, N. C.

"In The Heart of The Roanoke—Chowon Section"
Invites Manufacturing Enterprises.

Abundant raw materials—Timberlands, Cotton, Tobacco and Peanuts. Good transportation facilities, no labor troubles, and plenty of available railroad sites. Further information gladly given by

CHAMBER OF COMMERCE

Ahoskie, N. C.

Manufacturing Opportunities

Are you thinking of extending your business by opening in the South, where more and cheaper labor and an all-the-year-round open climate offers much better opportunities.

We own three attractive propositions, two complete, ready to move in, and one site with rail and water transportation, all with good railroad facilities.

We are anxious to correspond direct with you—can reduce the normal cost by fifty per cent.

PRINGLE BROTHERS

Charleston, S. C.

Thomas Graphic Chronicler of Business Facts—Composite Cash Book—Journal—General Ledger—Financial Statement and P & L Schedule
Patent applied for

WHERE THE METHOD DOES NOT FIT THE BUSINESS
MAKE THE BUSINESS FIT THE METHOD—"There's a Reason"

Free Particulars to Business Firms

National Distributors

BUSINESS RECORDS EQUIPMENT CO. ROANOKE, VIRGINIA

FLORIDA WANTS YOUR INDUSTRY

If you are contemplating the location of or investment in any industry in Florida or desire to make investment in lands, developments or any business in Florida. Have your investigations and certified reports made by registered Florida engineers who are residents and familiar with all local conditions. Each dollar invested in a report may save you hundreds.

Associate Engineers in Every County

Florida Associated Engineers

Bus Terminal Building, 25-27 W. Central Ave., ORLANDO, FLA.

FOR SALE—EAST ST. LOUIS, ILLINOIS

White tiled brick building located corner lot 100x112, directly opposite main entrance National Stock Yards at E. St. Louis, Ill. This building was constructed as a manufacturing laboratory, and on account of its location is admirably adapted for the production of stock remedies, stock foods or any type of pharmaceutical preparation, particularly so any product employing glands or fresh animal by-products, a supply of which can be conveniently obtained from the close-by packing plants.

Laboratory is all on the ground floors, suitably sub-divided, concrete floors throughout, good drainage system, electric wiring and water connection throughout entire plant. Suite of offices and storage facilities on second floor. Building is well ventilated and fitted with two large coolers.

Owners are prepared to present an attractive proposition to anyone interested in securing a property of that sort in this excellent industrial district.

THOMAS R. BUCKHAM

Specialist in Industrial Property

532 Murphy Building
East St. Louis, Illinois



In the Dead of Night

In the dead of night a fire breaks out—the alarm must be given. A child is taken sick—the doctor must be called. A thief enters the home—the police must be located.

In the dead of night the American turns to his telephone, confident he will find it ready for the emergency. He knows that telephone exchanges are open always, the operators at their switchboards, the wires ready to vibrate with his words. He has only to lift the

receiver from its hook to hear that calm, prompt "Number, please." The constant availability of his telephone gives him security, and makes his life more effective in wider horizons.

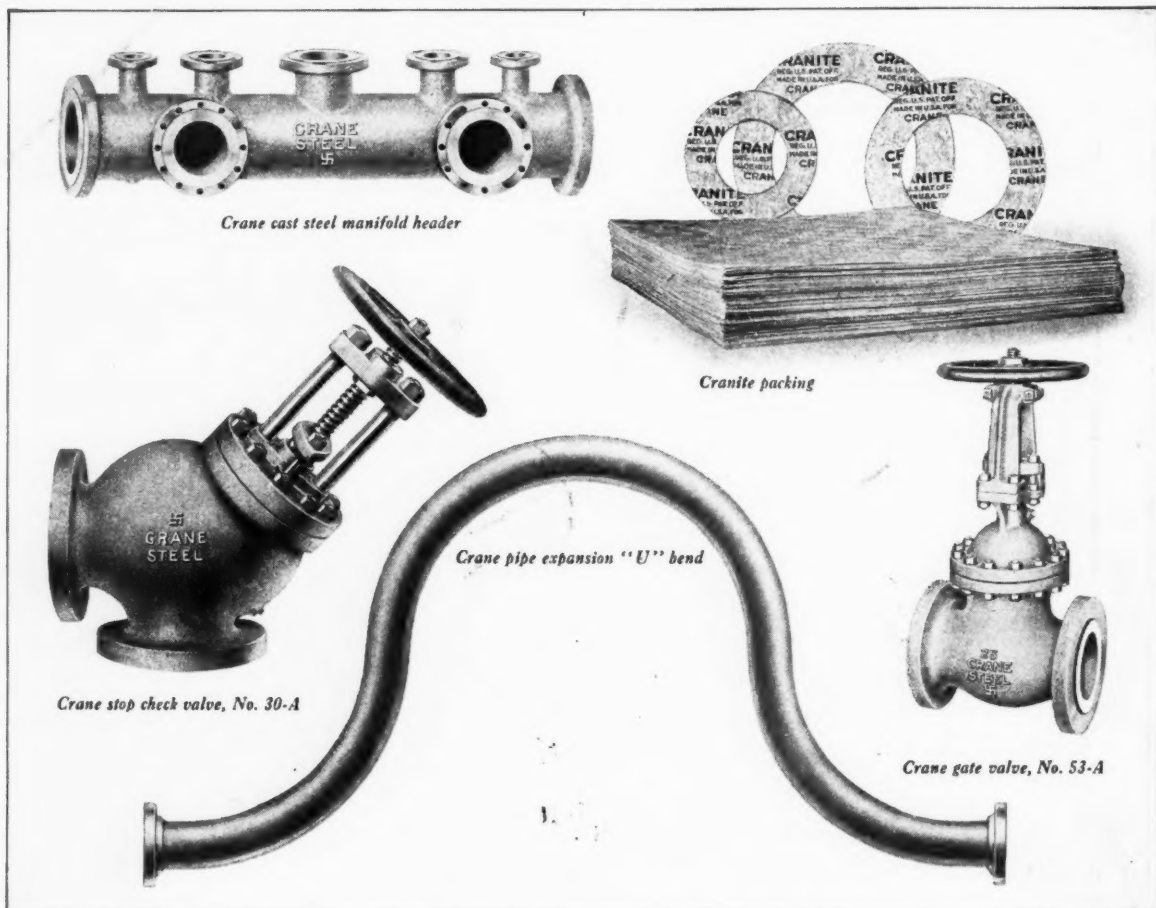
Twenty-four-hour service, which is the standard set by the Bell System, is the exception in the service of Continental Europe. An emergency may occur at any time. Continuous and reliable service has become a part of the social and economic fibre of American life.



**AMERICAN TELEPHONE AND TELEGRAPH COMPANY
AND ASSOCIATED COMPANIES**

BELL SYSTEM

One Policy, One System, Universal Service



Crane materials used throughout your power plant piping make possible a thoroughly dependable system. Freedom from leaks and the costly plant shutdowns that might result is your reward for their correct installation.

CRANE

GENERAL OFFICES: CRANE BUILDING, 836 S. MICHIGAN AVE., CHICAGO
CRANE LIMITED, 386 BEAVER HALL SQUARE, MONTREAL, QUEBEC

Branches and Sales Offices in One Hundred and Forty-five Cities

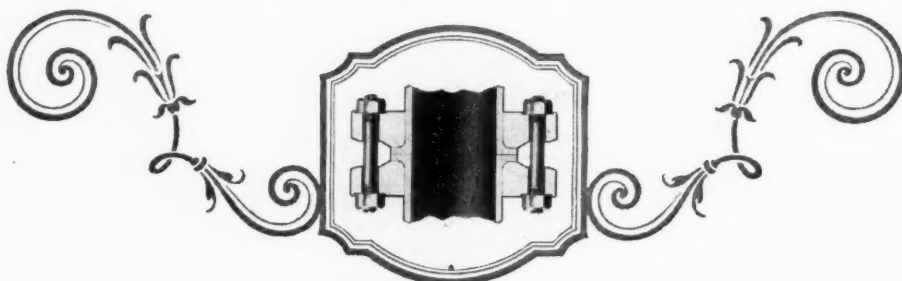
National Exhibit Rooms: Chicago, New York, Atlantic City and San Francisco

Works: Chicago, Bridgeport, Birmingham, Chattanooga and Trenton

CRANE EXPORT CORPORATION: NEW YORK, SAN FRANCISCO

CRANE-BENNETT, LTD., LONDON

CRANE, PARIS



Crane lap joint with square corners

